Please note

The text in this file has been automatically extracted and may contain minor errors. For the original version please consult the paper copy held in the Swinburne Library.
How to use this Handbook

The Swinburne Postgraduate Course Handbook is a complete reference for prospective and current students to the University's academic programs and structures.

This Handbook is ordered into three main areas: general Swinburne information; postgraduate course information; and subject details.

To locate a specific course, consult the main contents page, opposite, and identify the course title and page reference you require. All subject details for all courses are contained in the final chapter in alphanumeric order.

Course descriptions

Courses are listed in alphabetical order within the discipline area. Each course description outlines a course structure which includes a list of required subjects.

Subject details

All subjects or modules may be found in the final chapter of the Handbook. All subjects are allocated an alphanumeric code and are listed in this order.

Policies and procedures

The official policies, procedures and regulations relating to students is available from the University website: www.swin.edu.au/corporate/registrar/ppd/main.htm

CourseFinder

Swinburne's CourseFinder is the source of this handbook's course information, which was downloaded in September 2002. The database is updated regularly throughout the year. For up-to-date information, the database can be accessed from our website under 'Courses' or at: www.swin.edu.au/coursefinder

Caution

While Swinburne University of Technology has used all reasonable care and skill in collating or presenting the information, the University cannot guarantee or take responsibility for the accuracy of the information provided. The information contained in this Handbook is as correct as possible at the date of publication, being November 2002.

The Freedom of Information Act 1982 ("the Act"), which came into force on 5 July 1983, applies to Swinburne University of Technology. The purpose of the Act is to extend the right of access to information to persons requesting a document held by an agency. Applicants are required to lodge their request in writing to the Freedom of Information Officer. It is the policy of the University to conform with the spirit and intent of the Act with regard to disclosure.

Swinburne University of Technology is committed to providing a learning and working environment that is based on equality of opportunity for all.

There has been a total ban on smoking in all University buildings and vehicles since 1 January 1991.
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Coat of Arms
The coat of arms, conferred on Swinburne by the College of Arms on 25 June 1969, is based on the coat of arms of the Swinburne family. At a period during the 12th-13th centuries, when the northern counties of England were ruled by the Scots, a knight of France came to the aid of Queen Margaret of Scotland. She rewarded him with a grant of land in what is now Northumberland. On the banks of the Swin Burn, a small river that flows into the North Tyne, where he built a castle. He became known as William Swinburn(e) and soon the county reverted to the crown of England.

The Swinburne family coat of arms in medieval times was silver with three boar's heads in triangular formation. In the 17th century, during the wars between the Stuart Kings and the Parliament of England, the Swinburnes fought for the royalists. After the restoration of Charles II in 1660, the head of the family was created a baronet for his services. The crest became a baronet's coronet, with the boar's head rising from it and the coat of arms, divided horizontally red and silver, was charged three cinquefoils counter-charged.

Swinburne holds a unique place among educational institutions in Australia in the link that persists between it and the founder and his family. The conferring of a modification of the family's coat of arms preserves and strengthens that link.

The arms: the basic colours of red and white, and the cinquefoils charged on the shield, commemorate the arms of the Swinburne family. The omission of the third cinquefoil which appears in the family coat and the addition of the Bordure and the Mullets (Stars) are what are known heraldically as 'differences', which may often serve to indicate an association with another armigerous body or family. The four Mullets in Cross symbolise the Southern Cross.

The Crest
The demi-Boar and the cinquefoil perpetuate the Swinburne connection; the book is symbolic of learning.

The Motto
The College of Arms' translation of the motto is: Achievement through learning.

A Proud History
The 1992 proclamation by the Parliament of Victoria of the Swinburne University of Technology Act marked not only recognition of its distinguished history, but the beginning of a new period of growth and innovation for Swinburne. From its establishment in 1908 in Melbourne's eastern suburb of Hawthorn, Swinburne has grown from being a local provider of technical education into a multidisciplined, multicampus provider of higher education of national and international significance.

Swinburne was established as the Eastern Suburbs Technical College by George Swinburne and the first students were enrolled in 1909, when classes began in carpentry, plumbing and blacksmithing. Soon afterwards, a boys' junior technical school and the first girls' technical school in Victoria, were established.

In 1913 the institution changed its name to Swinburne Technical College, to commemorate the Honourable George Swinburne, a former Mayor of Hawthorn and a member of the Parliament of Victoria who was responsible for the initial establishment of the college.

In 1965 Swinburne affiliated with the Victoria Institute of Colleges, which was established in that year by an Act of the Parliament of Victoria, to foster the development and improvement of tertiary education in technical, agricultural, commercial and other fields of learning (including the liberal arts and the humanities) in institutions other than in the universities of Victoria.

The range of courses and the various levels at which they were offered grew to such an extent that in 1969, the boys' and girls' technical schools were taken over by the Victorian Education Department while the college remained as an autonomous institution.

An extensive reorganisation of advanced education took place in Victoria in the period 1976-78 culminating in the passing of the Victorian Post-Secondary Education Act. Under the Act the Victoria Institute of Colleges was dissolved and the Victorian Post-Secondary Education Commission established. Under the new arrangements, Swinburne Council was given power to grant bachelor degrees.

The first of these was awarded at a conferring ceremony held on Thursday 21 May 1981 at the Camberwell Civic Centre.

Swinburne University of Technology was proclaimed on 1 July 1992. Noted Australian businessman Mr Richard Pratt AO was installed as Swinburne's Foundation Chancellor on 15 March 1993. After Richard Pratt's retirement as Chancellor in 2000, Dr Douglas Mitchell was installed as Swinburne's second Chancellor on 26 June 2002.

Swinburne Today
Swinburne has a strong reputation in Australia and overseas as a provider of career orientated education and as a university with a commitment to research. The University maintains a strong technology base and important links with industry, complemented by a number of innovative specialist research centres which attract a great deal of international interest.

A feature of many Swinburne undergraduate courses is the applied vocational emphasis and direct industry application through Industry-Based Learning (IBL) programs. Swinburne was a pioneer of IBL, a program which places students directly in industry for vocational employment as an integral part of the course structure.

Swinburne is now one of a few Australian universities whose responsibilities span the range of programs from apprenticeships to PhDs. In keeping with this breadth of involvement, the University continues to play a leading role in creating new approaches to integration between sectors.

The creation of study Pathways between sectors and courses is firmly in place at Swinburne. Current Pathways involve moving either from the TAFE sector into Higher Education or from TAFE based VCE studies into full TAFE courses. A limited number of Pathways are available for students to move from degree courses into TAFE studies, and this will increase in the future. This process of articulation provides students with greater flexibility to complete tertiary qualifications.

Teaching and learning enhancement is a strategic priority for the University, and Swinburne is committed to the transfer of lifelong learning skills.

Swinburne was founded to provide expanded and more accessible educational opportunities to the residents of Melbourne's eastern suburb. Due to the amalgamation with Eastern TAFE on 1 July 1998, Swinburne's operations are now conducted at six campuses: Croydon, Hawthorn, Healesville, Lilydale, Prahran and Wantirna.

While focusing on its regional responsibilities, Swinburne is heavily involved in international initiatives and plays a significant part in the internationalisation of Australia's tertiary education system. In 1999 Swinburne established the Laem
the University

Chabang School of Engineering in Thailand providing VET programs in electrical and mechanical engineering, information technology and English language studies. In 2000, Swinburne Sarawak Institute of Technology was established in Kuching, East Malaysia. It provides seamless multisectoral tertiary education in engineering (computer systems, electronics and mechatronics), and business.

Our Future
To be a pre- eminent entrepreneurial university from the Asia-Pacific, thriving on new ideas and knowledge and exploiting our intersectoral heritage to create value for our stakeholders.

Our Business
To pursue the generation, transfer and creative application of knowledge and skills, using our intersectoral operations and programs.

To provide innovative education, research and training for the benefit of:
- students
- strategic partners
- industry and business generally
- staff
- the diverse communities and societies in which we operate

Our Strategic Themes
The Entrepreneurial University
Swinburne will be a renowned centre for entrepreneurship and innovation. Entrepreneurship and innovation will be a hallmark of everything that we do. We will prepare students to participate in the new economy and society of the twenty-first century and heighten their awareness of, and capacity to make the choice between, employment and self-employment.

The Research Intensive University
We will scale up the levels of research activity in all Schools and Institutes in the Higher Education Division so that the Division becomes truly research-intensive.

Internationalisation
Swinburne will become known as one of Australia’s most internationalised universities. All students will be able to gain exposure to international experience through the curriculum and through direct exposure to international environments. In a sense, every Swinburne student will be an international student. We will also further internationalise the student body.

Flexible Learning and Teaching
We will build optimal learning environments throughout the University. These learning environments will develop in all students their innate capacities for creativity and deep learning, and will be characterised above all by flexible learning and a more learner-centred approach.

The Intersectoral Advantage
We will capitalise on the advantages presented by operating at both the vocational education and training level and the higher education level in order to provide students, industry and business with manifold options.

Teaching Sectors
Swinburne has two teaching sectors under the control of one Council: Higher Education and Technical and Further Education (TAFE).

Higher Education
The Higher Education Sector offers professional qualifications ranging from degrees of Bachelor to graduate qualifications (certificates, diplomas and degrees of Master and PhD).

The Higher Education Sector comprises two divisions: Higher Education (Hawthorn/Prahran) and Swinburne Lilydale.

A total of 12,934 students were enrolled in the Higher Education Sector in the year 2002.

Technical and Further Education (TAFE)
The TAFE Sector offers courses at professional and para-professional level covering diploma, certificate, apprenticeship, VCE and access programs. A number of specialist courses are also provided for industry and the community.

The TAFE Sector comprises four Teaching Operations: School of Arts, Hospitality and Sciences: School of Business and eCommerce; School of Engineering: School of Social Sciences.

A total of 27,328 students were enrolled in TAFE courses in 2001.
Governance Structure

Council

Statutory Boards of the University

Academic Board

Divisional Advisory Boards:
TAFE

Higher Education (Hawthorn/Prahran)

Lilydale

Board of Technical Studies

Committees of Council

Joint Planning and Resources (JPRC) Committee
Finance Committee
Staffing Committee
Campus Planning & Building Committee
Legislation Committee
Executive Committee
Search Committee
Honorary Degrees & Professor Emeritus Committee
Remuneration Committee
Ethics Committees
Animal Experimentation Ethics Committee
Audit Committee
Human Research Ethics Committee
Higher Education Division (Hawthorn/Prahran)

Deputy Vice-Chancellor (Higher Education)

Higher Education Divisional Office

Australian Graduate School of Entrepreneurship (AGSE)
National School of Design
School of Biophysical Sciences & Electrical Engineering
School of Business
School of Engineering and Science
School of Information Technology
School of Mathematical Sciences
School of Social and Behavioural Sciences

Centre for Advanced Internet Architectures (CAIA)
Centre for Astrophysics and Supercomputing
Centre for Intelligent Systems and Complex Processes
Centre for Neuroscience Laboratory
Centre for Atom Optics & Ultrafast Laser Spectroscopy (CAOUS)
Centre for Imaging and Applied Optics (BIAO)
Centre for Micro-Photonics (CMP)

Centre for Applied and Bio-Colloid Sciences
Centre for Business and Management Research (CBMR)
Centre for Computing and e-Commerce (CIDECS)
Centre for Molecular Simulation
Centre for Software Engineering
Swinburne Computer Human Interaction Laboratory (SCHIL)
Centre for Psychological Services
Centre for New Technologies and Society

Centre for Applied and Bio-Colloid Sciences
Centre for Computing and e-Commerce (CIDECS)
Centre for Molecular Simulation
Centre for Software Engineering
Swinburne Computer Human Interaction Laboratory (SCHIL)
Centre for Psychological Services
Centre for New Technologies and Society

Centre for Applied and Bio-Colloid Sciences
Centre for Computing and e-Commerce (CIDECS)
Centre for Molecular Simulation
Centre for Software Engineering
Swinburne Computer Human Interaction Laboratory (SCHIL)
Centre for Psychological Services
Centre for New Technologies and Society
Deputy Vice-Chancellor (Lilydale)

Manager, Divisional Administration

Manager, Education Services

Manager, Education Development

Director, Centre for eBusiness and Communications

Director, Centre for Regional Development

Director, Learning and Teaching

Online Development Education Officer

Education Development Advisors

Indigenous Programs

Learning and Teaching (University wide function)
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<td>Manager, Computing and Information Technology</td>
<td>Manager, Community and Further Education</td>
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<td>Manager, TAFE International Recruitment and Marketing</td>
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Staff and Officers of the University

University Council

Chancellor
Dr D. Mitchell, BSc (Melb), MSc, PhD (Lond)

Deputy Chancellor
T.W. Brown, FCA, ASCPA

Appointed by the Governor-in-Council
D. Eynon, BEc(Mon), MA(Melb)
H. Gray, BA(Hons), LLB(Hons)(Melb)
R. Hodges, DipEng(Aero)(RMIT)
L.R. Wilson, BEcon(Hons), MBA(Mon)

Appointed by the Governor-in-Council
D. Watson, DipMS(Lon), FCIS, FAICD, FAIBF
K.N. Watson, AM. BA. DipEd. BEd(Melb)
Prof J.G. Wallace, MA, MEd(Glas), PhD(Brist), FASSA (Vice-Chancellor)

Chair of the Academic Board
Prof H. Lueckenhausen, GradDip(Industrial Design)(RMIT), DipEd(Hawi), MDIA

Chair of the Board of Technical Studies
J. Bissland, BA(Hons)(Saskatchewan), MA(Ontario), GradDipChildDevelopment, GradDipEd(Melb), MDIStudies(Mon)

Elected by the Academic Board
G.M. Leonard, BSc(Melb), MACS

Elected by TAFE Academic Staff
D. Street, BA(Hons)(Otago), DipEd(Christchurch)

Elected by General Staff
B. Camfield, BASITI, AssocDiplLib(RMIT)

Elected by Higher Education Students
G. Gupta, BSLH, GradDip(Tech)Information Systems Development(SUT)

Elected by TAFE Students
A. Jusat, Grad Dip(E Aust)

Council Secretariat

Secretary
FG. Bannon, BCom(Melb), FCAS, ACIS, ACIM, LCA

Executive Officer
A. Daun, BA(Hons)(Exon)

Chancellery

Chancellor
Dr D. Mitchell, BSc (Melb), MSc, PhD (Lond)

Kce-Chancellor and President
Prof J.G. Wallace, MA, MEd(Glas), PhD(Brist), FASSA

Senior Deputy Kce-Chancellor
FG. Bannon, BCom(Melb), FCAS, ACIS, ACIM, LCA

Deputy Kce-Chancellor (Higher Education)
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F. Ghoth, BEd[Melb], MSc(SocSci)(St. John's)

Lecturers
E. Cunningham, BSc(Hons)(Mon), BSc(CompSci), GradDipAppSci(Melb), PhD(Melb)
N. Khan, MSc(CompSci)
N. Li, MSc(USTC), PhD(Melb)
D. Lucy, DipEd(Melb), BSc(Hons)(Melb), PhD(Melb)
D.C. Mainwarine, DipEd(Melb), MSc(Liv)
J.F. Pallant, BA(Hons)(LJ), PhD(Melb)
D. Richards, BSc(Hons), LLB, MSc(Melb)
J. Sampson, MPhil[UCT], MPhil[CompSci], MPhil[Pharm], AMFt
M. Tolin, DipEd(Melb), BSc(CompSci), MSc(Melb), MPhil[CompSci], AFt
R. Vrachanas, BA[Melb], MSc(CompSci), MPhil[CompSci], APh

Administrative Officer
V. Laurinaitis, BEd[Melb], MSc(Math)

Mathematics Education Resource Centre
Coordinator
B.M. Leary, BA[CompSci], FRM

Assistant Coordinator
K.B. Clarke, BSc[Melb], TSTC, GradDip[CompSci], GradDip[St. John's]

TP Australasia, Teaching Technology
Director
Prof PL. Jones, BSc(Melb), PhD(Melb)

Adjunct Professors
A.K. Easton, DipEd[ATC], MSc, PhD(Fin), FIMA
A. Brown, BA(Hons)(Melb), FA(AAI), AI(AAI)

Professional Fellows
Prof H. Freedman, BSc(Melb), MA, PhD(Melb)
Prof V. Gurari, PhD(Moscow)
Prof M. Harding, MSc, PhD(Melb)

Research Associates
J. Ennett, BA(Hons)(Melb)
J. Jones, BSc, GradDip[AppSci], PhD(SUT)
G. Lewis, BEng(CompSci), MFing(SUT)

Research Assistants
C. Bailey, BA[Melb]
N. Firth, BA, GradDipEd, GradDipSecEd, Med(Melb)
T. Shea, BA[CompSci](SUT)

S. Tarascio, BSc(CompSci), GradDipVocFnd(CompSci)
M. White, BA(SJT)
School of Social and Behavioural Sciences

Head of School
Dr J. Muiravsky, BA(Hons), DipEd, PhD(Mon)

New Technologies and Society Research Centre
Director
Assoc Prof M. Gilding, BA(Hons)[ANU], PhD[Mac]
Manager
J. Wheeler, BA(Hons)[SUT]
Centre for Psychological Services
Director
R.H. Cook, BSc(Hons)(Melb), Med(Mon), MAPS

Media and Communications
Chair
D. Tofts, BA(Hons)[LaT], PhD[Melb]
Professor
Prof T. Barr, BEd[LaT], MA(SIT)
Lecturers
J. Barbour, GradDipInfoTech[Melb], MA(Communications)[SUT]
M. Finn, BA(Hons), MPhil(Griffith), PhD[QUT]
F. Cieslon, BA(Hons), BEd(Melb), MA[LaT]
L. Gyn, BA(SUT), DipEd[Melb]
E. Miltie, BA(Hons)[SUT]
J. Schwartz, BEd, BEd(Mon), Med[LaT]

Psychology
Chair
Assoc Prof A.D. Knowles, BA(Hons)[Melb], Med, PhD(Mon), MAPS
Professor
Prof S.M. Moore, BSc(Hons)[Melb], Med(Mon), MAPS
Senior Lecturers
G.W. Bates, BCom, BA(Hons), MA(ClinPsych), PhD(Melb), MAPS
E. Hardie, BA[USQ], PhD[Melb], MAPS
Lecturers
S. Buzwell, BA(Hons)[Melb], PhD[LaT]
R.H. Cook, BSc(Hons)[Melb], Med(Mon), MAPS
N. Craft, BSc(Hons)[LaT], DPsych(Counselling Psychology)[SUT]
C. Critchley, BA, GDAppPsych(SUT), PhD[Melb]
B.M. Findlay, BA, BSc(Hons), MSc, PhD(Melb), MAPS
R. Gallagher, BSc(Hons)[WAA], MA, PhD[Toronto]
E. Kashima, BA[Sacred Heart], MA, PhD[Illinois]
G. Murray, BA(Hons), BSc, MPsych, GradDipGestTher, PhD[Melb], MAPS
C. Wood, BSc(Hons)[Clinical], PhD[LaT]

Social and Policy Studies
Chair
K.J. Rowley, BA(Hons)[Melb]
Professor
Assoc Prof K. Betts, BA(Hons), PhD(Mon)
Assoc Prof M. Gilding, BA(Hons)[ANU], PhD[Mac]
Senior Lecturers
A.E. Gam, BA(Hons)[WA], PhD[Murd]
P.J. Healy, BA(Hons)[NUI], MA, MS, PhD[PennState]
P.J. Love, MA[LaT], PhD[ANU]
Lecturers
K. Fakharazad, BA(Berkeley), MA, PhD[Hav]
L. Turney, BA(Hons), PhD[Diekkin]

School Administration
School Administration Manager
L. Bayly, BEd(Melb)

Administrative Staff
M. Abrahams
M. Button, BAppSci[ConSci][RMIT], GradDipEd[Haw]
L. Cutri
K. Diakovsky
H. McDonald, BSc, BA(Hons)[ANU]
J. Mathews, DipHumRes[AHRI][Mon]
C. Watts, BBus[SUT]

Swinburne, Lilydale Division

Divisional Staff
Deputy Vice-Chancellor
Prof B. van Eerdt, AM, BA(Mon), PhD[LaT], MACE
Divisional Manager
J.E. Austin, BA(SUT)
Director, Teaching and Learning Services
G. Arger, Med[hons]
Manager, Student Administration
G. Schnabl, BSc(Mon), DipEd[Mon]

Academic staff
Head of Studies
S.E. Weal, BAppSci[RMIT], MA[LaT]
Deputy Head of Studies
B.R. Clarke, BEd, LLB[Mon], GradDipMkt[CIT], Barrister & Solicitor (Vic) Supreme Court
Associate Professor
H. Paterson, DipEd, BCom(Melb), MSc, PhD[LaT], CPA

Discipline Leaders
Accounting
J.S. Lourens, BBusAcc(CIT), GradDipAcc&Fin[CIT], GradDip[SOVI], MAdmin[Mon], PhD[Mon], CPA
Core Subjects
J. Bryant, BA(Hons)[LaT], DipEd[Melb], MA[Mon]
Economics
R. Smith, BA(Hons), DipEd, DipContEd[UNE], GradDipBIT[SIT], MCom[NSW], Med[TeSUS][Mon], MAC

Information Technology, Systems & Multimedia
B. Calvey, GradDipMktSyst[SIT], MBA[UITS], PhD[SIT], MACS
Management / Enterprise Management / Human Resource Management
V. Power, BAS[SIT], GradDipAppPsych[SUT], MAPS

Marketing
M. Spark, BCA[VUW], MBA[CranIT], FAIM, AFAM
Media
K. Vigo, BA[Melb]

Psychology
E. Ihms, BSc(Hons)[Mon], PhD[Mon], MSPCD, MAAHDA
Social Statistics
K. Lipson, BSc(Melb), DipEd[HE], PhD[SUT]

Sociology
A. Saiz, DipPrlst[BusAdmin][Munich], BA(Hons)[Mon]

Tourism
A. Nankervis, GradDipBusTourism[DeVUIT], MBus[DeVUIT]
Principal Lecturers
J. J. Arnold, BSc (Melb), DipEd (Melb), PhD (Deakin), MACE
J. Brown-Parker, BSc (Fla), Med (Michigan State), PhD (Montana)
J. Bryant, BA Honours (Lat), DipEd (Melb), MA (Mon)
G. Fancy, BSc, GradDip (Mon), PhD (Mon)
E. Ihsen, BSc (Hons) (Mon), PhD (Mon), MSc, MAAHDA
K. Lunnings, BA (Melb), DipEd (Sad), PhD (SUT)
J. B. Noyle, BA(Hons) (Cit), GradDipAcc & Fin (Cit), DipEd (SUT), MAAdmin (Mon), PhD (Mon), FCPA
A. Nanier, GradDipT (Tourism Dive) (VUT), MBA (SUT)
V. Power, BA (SIT), GradDipAppPsych (SUT), MAFRS
A. Seltz, Dip (Real) in Bus Admin (Mon), BA (Hons) (Mon)
R. Stiles, BA Honours (SIT), DipEd, Dip CompEd (UNEL), GradDipEd (SIT), MComm (NSW), Med (TAFE), MA, MACS
D. Tafe, BA (Hons) (SIT), CPA
K. Vigo, BA (Melb)

Lecturers
G. Chow, BSc (Mon), Dip Comp Tech (CIT), MACS
M. Crameri, BComm Honours (Melb), FIA; BIS
J. Dickson, BA Honours (SIT), DipEd, Dip SocSc Counselling (UC)
J. Fizelak, MSc (Melb), AFAHRI
D. Gardiner, BSc (SIT), CPA
J. Grainger, BEd (Mon)
S. Kokonis, BSc (Mon), BAA (Hons) (SIT)
C. Lincoln, BA Arts (SIT), Dip Ed in (AeroEng) (RMIT)
S. O'Sullivan, BAA (SIT), DipEd, AssDip in AeroEng (RMIT)
A. Peters, BEd (Hons) (SIT)
L. Signor, GradDip (RMIT), Grad DipEd (Lat)
S. Theiler, BA PsychSc & Soc, Grad DipAppPsych (SUT)
T. Tonkin, BA (Bendig), Grad DipEd (Lat), MComm Law (Deakin), ASA
S. Townsend, BA Applied Com, BA, Grad DipAppPsych (Mon), Grad DipBusDeakin, MPsych (Melb), MAFRS, AIMM, AFAHRI
M. Tucker, BEd (Hons) (Lat), MComm (Melb)
I. Wallace, GradDip Ed

Swinburne TAFE Division

Deputy Vice-Chancellor (TAFE)
A. Crozier, BSc(Hons) (Level), PCCE (Comb)

Executive Director Educational Development
J. Bisland, BA (Hons), Grad DipEd, Grad DipEd, MA, MEd

Executive Director Strategic and Business Development
D. Burgel, BEd (Mon), DipEd (Mon), BSc (Mon)

Director, Business Development
E. Spangher, BBus

TAFE School of Arts, Hospitality and Sciences

Director
H. Coates, BBus, DipEd, BEd

School Administrator
E. Drumm

Manager, Arts Department
W. Winfield, Dip Arts and Design (RMIT), PCAE, DipEd (Hawkesbay), Grad DipFrontline Management (SUT)

Manager, Horticulture and Environmental Sciences Department
P. Hellregel, Dip Hort, Grad Dip Ed, Grad Cert (Leadership & Management)

Manager, Hospitality and Tourism Department
D. Stevens, Dip Hospitality & Tourism (RMIT), Grad Dip Ed (Hawkesbay), MEd (RMIT)

Manager, Industrial Sciences Department
L. Edwards, Dip Med (Lat), Grad Dip Computing

Manager, Centre for Food and Wine Tourism
D. Stevens, Dip Hospitality & Tourism (RMIT), Grad Dip Ed (Hawkesbay), MEd (RMIT)

TAFE School of Business and eCommerce

Director
I. Wittman, BEd, Dip PNe, Dip Ed

School Administrator
M. Falkin

Acting Manager, Administration and Business Technology Department
B. Barbuta, BComm (Melb), TSTC (Hawkesbay), Cert IV Workplace Training (SUT)

Manager, Financial Services Department
H. Hayes, BA (Media) (RMIT), Grad Cert Fin (Monash University), Grad Cert Bus Admin (SUT)

Manager, Management Department
G. Stalley, BComm (Melb), DipEd (Melb), Dip Frontline Management (SUT), Workplace Assessor

Manager, Marketing and International Studies Department
D. Sullivan, BEcon, Grad Dip Ed, Dip Ed (Lat), MBA

Manager, Business Enterprise Centre
S. Smith, BEcon, BEd

TAFE School of Engineering

Director
C. De Martinis, BSc, BEng (Hons), MSocSc, Dip Ed, Grad Dip Occupational Hygiene, Dip Frontline Management

School Administrator
J. Thersey, DipBusAdmin (SUT), Grad Cert BusAdmin (Executive Administration) (SUT)

Manager, Department of Building and Transport
R. Williams, Apprenticeship in Carpentry Joinery, Building Trade Technician Subjects. Trained Trade Instructors Certificate, Dip Ed, Leadership Development for Educational Training Managers

Manager, Department of Computing and Information Technology
B. Clifford, BE, TTC

Manager, Department of Electrical and Electronics Technology

Manager, Department of Mechanical and Automotive Technology
D. Noel, JTLipRipGenAdmin, Dip Tech Teaching (UTS), Dipl Frontline Management

TAFE School of Social Sciences

Director
J. Cashon, BSc(Biologia), Dip Ed, Dip Ed CompSc, Grad AIP

School Administrator
M. Gray, Grad Cert BusEd Admin (SUT)

Manager, Department of Access
L. Cutting, MCert in Assistive Tech (Melb), Dip Ed (TESOL & Lat), Grad Cert (Secretarial Studies), Grad Dip Music

Manager, Department of Child and Family Studies
C. Forbes, BA, BSc(Hons) (Mon), Dip Teaching (UG), Dip (Frontline Management) (SUT)

Manager, Department of Community and Further Education
K. Bailey, BA Ed, PhD, DipM (Management and Leadership), Dip (Frontline Management), Cert IV (Workplace Training)

Manager, Department of Health, Recreation and Human Services
G. Amott, BEd, BEd (Mon), Dip FmI, Grad Dip Bus Admin, MBA, Cert IV (Hospitality and WP Training) (SUT)
Research Institutes and Centres

In 1995, the University's Board of Research and Graduate Studies adopted a three-tier structure for research development and support. Tier 1 comprised major research centres and institutes and Tier 2 comprised significant emerging research groups. Both Tier 1 and Tier 2 centres received central university infrastructure funding for their research. During 1995/96 two major research centres were granted the status of Tier 1 institutes and the establishment of the first Tier 2 centres was approved. The centres have continued to develop their research activities and in 1998 the Institute for Social Research (ISR) was created through the amalgamation of a Tier 1 (Centre for Urban and Social Research) and a Tier 2 (Asia-Australia Research Centre) centre.

Tier 1 and 2 Research Centres and Institutes

Brain Sciences Institute (T1)
Centre for Applied Colloid and Biocolloid Science (T1)
Industrial Research Institute Swinburne (IRIS) (T1)
Institute for Social Research (T1)
Swinburne Computer Human Interaction Laboratory (SCHIL) (T2)

Brain Sciences Institute (BSI)

Director: Assoc Prof David Crewther
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Email: dcrewther@bsi.swin.edu.au
Contact: Beata Erickson, Institute Administration Manager
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Email: berickson@bsi.swin.edu.au
Website: www.scan.swin.edu.au/

Brain Sciences Institute (BSI) is a major research and postgraduate teaching facility, whose mission is to understand and model neural basis of cognition and emotion in normal and disordered brain states. To undertake this work BSI has adopted a multidisciplinary research strategy that combines functional neuroimaging techniques such as high-spatial resolution brain electrical activity recording and functional magnetic resonance imaging with the disciplines of neuropsychopharmacology, neuropsychology, neuropsychiatry and psychophysiology.

BSI draws on established work and develops new models of brain function, testing them by eliciting specific patterns of brain activity; applies its expertise and technology to clinical research projects; develops software and hardware which provides accurate data about brain activity the effects of various drugs on the brain.

The BSI collaborates with a number of leading brain research laboratories and functional neuroimaging research centres in Australia, England, Japan and the United States.

Environment and Biotechnology Centre

Formerly the Centre for Applied Colloid and Biocolloid Science.

Head: Dr Russell Crawford
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The Environment and Biotechnology Centre is one of Swinburne University of Technology's principal research centres. It promotes the development of applied and industrial research in both environmental science and biotechnology. The Centre currently has 16 academic staff and over 30 research students, possessing expertise in fields as diverse as bioactive compound production and extraction, bioremediation, surface and colloid science, molecular biology, catalysis, public and environmental health, biosensors, enzyme technology, heavy metal removal, tissue engineering, nanotechnology and pulp and paper bioprocessing. The Centre resides in the School of Engineering and Science at Swinburne's Hawthorn campus.

The Centre's predecessor, the Centre for Applied Colloid Science was established in the Department of Applied Chemistry at Swinburne in 1989, at which time its research activities were principally focussed on studying the physical chemistry of colloidal systems. The research activities of this centre were expanded in 1986 to include research into biological systems, and hence the centre was renamed the Centre for Applied Colloid and Biocolloid Science. In 2002, the centre expanded, and was renamed the Environment and Biotechnology Centre to more accurately reflect the range of research activities undertaken.

Today, with strong links to industry, the Centre is strongly focussed on industrial biotechnology and environmental research. Operating as a contact point for visiting members of staff from both local and overseas academic institutions, companies and government authorities, the Centre has become a strong focal point of postgraduate research for many industries.

Industrial Research Institute Swinburne (IRIS)

Director: Prof Tom Spurting
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The Industrial Research Institute Swinburne (IRIS) was established in 1985. Our vision is to be Australia's leading institute for applied research and postgraduate education to enhance the international competitiveness of Australia's manufacturing industry.

We will achieve our vision by maintaining our core capabilities in:

- The provision of innovative industry-based postgraduate research training;
- Industrial laser technologies for conventional scale and micro scale manufacturing;
- Intelligent manufacturing technologies;
- The use of microwave technologies in manufacturing processes; and
- By building on our emerging core capability in biotechnology.

Approximately eighty per cent of IRIS' research work is applied and industry-oriented or 'industry-based'. The remainder of the research effort is basic research into core technology areas. IRIS works with five cooperative research centres (CRCs), which combine a number of industry and university partners. These centres are:

- The CRC for Intelligent Manufacturing Systems and Technologies (IMS&T)
- The CRC for Cast Metals Manufacture (Camm)
- The CRC for Microtechnology
- The CRC for Welding Structures
- The CRC for Wood Innovations

IRIS postgraduate education programs are provided, from Graduate Certificate through to Graduate Diploma and Master of Engineering levels in a number of different disciplines. IRIS has also developed and implemented a system of career oriented learning (COL) in which postgraduate education programs are tailored to enhance depth of knowledge in areas related to career shift or career advancement. IRIS offers research scholarships to graduates with exceptional academic results to pursue PhD and MEng (by research) programs.

Institute for Social Research (ISR)

Director: Prof Terry Burke
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The ISR undertakes applied policy oriented research in the social sciences through designated programs and provides a platform for discussion and debate around contemporary social issues and policy. It also runs postgraduate courses in housing management and provides research consultancy services and professional development programs.

The ISR focuses on three interdisciplinary research programs:

- Cities and Housing
- Citizenship and Social Policy
- Media and Communications

The Cities and Housing program focuses on the reshaping of cities and the nature of urban life. It explores the equity and quality of life implications of these changes, and what governments might do to address them. The program also
examines the changing nature of housing systems, both nationally and internationally, with particular reference to the ability of housing markets and housing policy to produce affordable and appropriate housing.

The Citizenship and Social Policy program focuses on three broad themes: democracy, citizenship and human rights; the impact of economic rationalism and globalisation, and defining and measuring progress and wellbeing (democratic policy and ethical dimensions). Within these themes, research is being undertaken on the development of national progress indicators: local community indicators and their extension into the local government sector; constitutional reform; and national, state and local values as they affect community planning and wellbeing priorities.

The Media and Communications program has two broadly interrelated themes. The first is to analyse the growth and convergence of media, information technology and telecommunications, collectively referred to as communications. The second theme examines the ways in which communications, and the cultures they produce, have modified our perception of space, place and identity, and society.

The ISR also has within its structure the Asia-Pacific Centre for Philanthropy and Social Investment, whose establishment in 2001 reflected the growing interest worldwide and in Australia in these fields. The Centre provides professional education and research in grantmaking and the development process as well as consultancy and grantwriting services. It is one of few bodies in the world to offer specialist skills in development and grantwriting.

Swinburne Computer Human Interaction Laboratory (SCHIL)

Director (Acting): Dr Lorraine Johnston
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Website: www.iit.swin.edu.au/schil/

SCHIL's mission is to understand and improve the nature of information technology from the perspective of the end users of that technology. SCHIL was established in the early 1990s to meet the needs of the important research and consulting areas of usability and human factors in computing systems. Located within the School of Information Technology, SCHIL provides a 'centre of excellence' in the human issues which underpin information technology and the systems development process - the area known as human-computer interaction (HCI).

The current research concentrations of SCHIL are:

- Interface and Device Design
  - SCHIL researchers share an interest in theories and techniques for visual and auditory display design. Projects include the design of interfaces for systems ranging from complex industrial processes to e-commerce applications. There is activity in the development and deployment of computing devices for real-world collaborative environments and in human interaction with intelligent computer-based agents.

- Usability and Engineering for HCI
  - SCHIL researchers share an interest in developing software engineering processes that take the needs of human users into account. We investigate user-centred process models for software engineering and usability evaluation techniques and tools.

- New Technologies
  - New technologies are often introduced to an application domain without particular consideration of user needs. SCHIL researchers are examining the use of mobile devices from a user-centred perspective, one example being the use of mobile phones for collaborative work.

SCHIL has a state-of-the-art usability laboratory in which empirical research studies and postgraduate practical education in HCI is carried out. Other activities of the Centre include the supervision of postgraduate research students, and the conduct of high level consultancy in the three areas listed above.

Other affiliated centres

**Australian Centre for Emerging Technologies and Society (ACETS)**

Director: Assoc Prof Michael Gilding
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Email: ACETS@swin.edu.au
Website: www.swin.edu.au/dts/acets

The Australian Centre for Emerging Technologies and Society (ACETS) is committed to innovative research and teaching in the understanding of the social, cultural and ethical implications of new technologies during the Information Age. It is part of the School of Social and Behavioural Sciences, and draws upon staff from Psychology, Media, Sociology, Politics and Philosophy.

ACETS operates programs in the following four areas of research:

- Public Understandings of New Technologies
- Biotechnology and Society
- Digital Cultures
- New Technology Entrepreneurs

ACETS is currently in the process of launching the Swinburne National Technology and Society Monitor, funded by the Chancellery Strategic Initiatives Program. The Monitor is an annual survey of public understandings of new technologies, in the context of rapid technological innovation, new personal choices, and new public controversies.

ACETS operates a dedicated research unit, which includes Computer Assisted Telephone Interviewing (CATI) and focus group facilities. This unit provides the Swinburne National Technology and Society Monitor and other ACETS research projects, and operates as a student training facility. Its services are also available on a commercial basis, thereby supporting the research program of the Centre.

**Australian Foresight Institute (AFI)**

Director: Prof Richard Slaughter
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The Australian Foresight Institute (AFI) is part of Swinburne's strategy to provide innovative leadership through programs of wide social, cultural and economic value to the Australian community. AFI offers a nested postgraduate program in strategic foresight. Strategic foresight is the ability to create and maintain high-quality forward views and to use the insights arising in organisationally useful ways.

The Strategic Foresight program will attract students who have completed first degrees and who are looking for an innovative 21st century specialisation. Courses will also be relevant to those currently working in a range of forward-looking roles including strategy, planning and foresight functions in public and private sector organisations.

The primary purpose of the Institute is to facilitate the emergence and application of high-quality foresight in each major sector. This is part of a wider strategy to encourage wider social, cultural and economic shifts from a society driven by the past to one that is increasingly open to the forward view and therefore able to be future-responsive.

**Australian Graduate School of Entrepreneurship (AGSE)**

Head: Professor Adolph M Hanich
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With some 100 doctoral students, the Research Division of the Australian Graduate School of Entrepreneurship (AGSE) has a major commitment to research
We take a broad view of entrepreneurship and recognise the similarities (and differences) existing between business and social entrepreneurship. Underlying this view is that a healthy and civilised society is best served by having both a vibrant and ever renewing business sector, as well as a healthy and active community or not-for-profit sector.

In addition, AGSE offers a range of postgraduate coursework programs. It was the first academic centre in the world to offer a Masters level program in entrepreneurship, the Master of Entrepreneurship and Innovation (MEI). The Centre for Business and Management Research (CBMR) provides an interface with the commercial sector for the School’s academic research groups within and outside Australia. The Centre for Astrophysics and Supercomputing (CAOUS) is part of the newly established Swinburne Optics and Laser Laboratories and carries out fundamental and strategic research in the areas of:

- **Atom Optics.** Novel magnetic microstructures are being developed as atomic mirrors, beamsplitters, waveguides and integrated optical elements on a silicon chip for manipulating beams of ultracold laser-cooled atoms and Bose-Einstein condensates. A second project uses samples of ultracold laser-cooled atoms to investigate the formation and dissociation of molecules at ultralow temperatures.
- **Ultrashort Laser Spectroscopy.** The state-of-the-art Swinburne femtosecond laser facility is being used to develop new femtosecond/coherent nonlinear techniques to investigate ultrafast processes in complex molecular systems including biological molecules, new semiconductor materials and quantum nanostructures.
- **Quantum Information.** A new type of quantum computation, ‘Quantum adiabatic computation’, has been proposed and is being investigated as a possible means to solve classically non-computable problems such as the well-known halting problem in classical computation. Other projects include studies of the limits of decoherence places on the implementation of practical quantum computers and the use of quantum field theory to formulate a new treatment of quantum measurement.

**Centre for Business and Management Research (CBMR)**

**Director:** Prof Miles Nichols  
**Telephone:** +61 3 9214 8434  
**Fax:** +61 3 9214 5245  
**Website:** www.swin.edu.au/business/cbmr/welcome.htm  
The Centre for Business and Management Research is located within the School of Business. Its role is to support and facilitate the research and consulting activities undertaken by members of the School of Business. This is achieved by coordinating facilities and providing assistance to researchers and consultants of the School and generating research and consulting opportunities for members of the School.

The CBMR provides an interface with the commercial sector for the School’s consulting/research and offers a range of services which include:

- Collaborative research with business/industry;
- Consultancy and research services that provide practical and applied outcomes; and
- Training courses and professional development programs customised to the specific needs of corporate and public sector organisations.

A variety of undergraduate and postgraduate degree programs are also offered in the School of Business.

At present CBMR activities are organised around, but not confined to, six interrelated generic streams of research:

- Marketing
- Human Resource Management and Organisation Behaviour
- Accounting and Finance
- Mixed Mode Modelling
- Demography and Sample Surveys
- European Business Research.
Each year the Centre conducts a seminar series featuring invited national and international presenters on topical issues in management and business.

Centre for eBusiness and Communication

Director: Assoc Prof Helen Paterson
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Email: adminbus@swin.edu.au
Website: www.id.swin.edu.au/ebusiness

The Centre for eBusiness and Communication was established to address the needs of business people and others working in an environment significantly changed by the advent of new technologies.

The Centre builds upon the virtual learning community and flexible approach to teaching and learning upon which the design of Swinburne Lilydale was based. It also builds upon a strong sense of partnership with industry and regional developments.

The Centre provides a technology related business management program consisting of Graduate Certificate, Graduate Diploma and Master of Business (eBusiness and Communication).

Our negotiated learning contracts allow students to develop their own customised learning path. Students can achieve their own objectives within the scope of each subject. They can use projects to link their study to their workplace, industry or service interests, adding immediate value and relevance to their learning.

The study program includes a balance of theory, research, professional practice and applications of business and communication concepts and techniques.

Centre for Imaging and Applied Optics (CIAO)

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The Centre for Imaging and Applied Optics (CIAO) was formed in December 1997, in response to the new Swinburne University initiatives in laser technology. CIAO shares a modern, purpose-built, optics laboratory facility on the ground floor of the Applied Science building (Hawthorn campus). CIAO is involved in applied optics research, primarily in the areas of fibre optic sensing, new optoelectronic materials, and fibre optic adaptation of confocal and two-photon laser scanning microscopy.

CIAO has developed several collaborative links with industry. The Centre currently collaborates with Optiscan Imaging Limited (a leading Australian designer and manufacturer of confocal microscopy systems) to research and develop "next generation" imaging instruments.

CIAO’s main research interests are in the following areas:
- Fibre optics sensors
- Development of novel rare earth doped glasses for laser applications
- Laser Scanning Confocal Microscopy
- Two-photon microscopy

This centre forms a part of the Swinburne Optics and Laser Laboratory which is a world-class centre for fundamental and applied research in lasers, microscopy and photonics.

Centre for Intelligent Systems and Complex Processes

Director: Assoc Prof Tim Hendtlass
Telephone: +61 3 9214 8863, or +61 3 9214 5272 (Postgrad Area)
Fax: +61 3 9819 6443
Email: thendtlass@swin.edu.au
Website: gene.bsee.swin.edu.au/

The Centre for Intelligent Systems and Complex Processes has been established within the School of Biophysical Sciences and Electrical Engineering (BSEE) to act as a focus for, and to promote, the work being carried out in the school on areas such as artificial neural networks, fuzzy logic, expert systems and genetic algorithms.

Centre for Internet Computing and eCommerce (CICEC)

Director: Assoc Prof Yun Yang
Email: yun@it.swin.edu.au
Telephone: +61 3 9214 8752
Fax: +61 3 9819 0823
Website: www.it.swin.edu.au/centres/ciec/default.htm

CICEC performs innovative research into the development and application of Internet technology for Internet computing and electronic commerce. Our primary focus is to produce insights, frameworks, models and prototypes for software developers, information technologists, software, knowledge and information systems managers and Internet entrepreneurs. Our key strength is the ability to integrate our multi-disciplinary skills and expertise with a view towards solutions to contemporary business and technological challenges. Research at CICEC covers various themes, including:
- Internet Computing (agents, mobile computing, electronic commerce, trust)
- Web-based Computer-Supported Cooperative Work (CSCW) and Real-time Groupware.
- Component-based Distributed Systems
- Information Visualisation

Centre for Mathematical Modelling

Research Coordinator: Dr Manmohan Singh
Telephone: +61 3 9214 8024
Fax: +61 3 9819 0821
Email: msingh@swin.edu.au
Website: www.swin.edu.au/cmm/

The Centre for Mathematical Modelling has been established to promote research and to provide a focus for research in mathematical modelling within the School of Mathematical Sciences, and the University. It brings together expertise and experience from a wide range of mathematical disciplines with a long established reputation in educational, consulting, and research activities.

The mission of the Centre is to become an internationally recognised facility undertaking research and development in mathematical modelling for industry and commerce.

The main objectives of the Centre are:
- To carry out research in mathematics and its applications in Australia and internationally.
- To be a Centre for graduate research training in mathematical modelling.
- To undertake consultation and development projects in mathematical modelling for the wider community.
- To carry out collaborative programs within Swinburne and with government and private enterprise.
- To provide mathematical, including statistical and computational, research support for the wider Swinburne community.

Current research and consulting has strong emphases on computational modelling, visualisation and on the delivery of results electronically. The projects can be classified in the areas of:
- Computer Simulation and Modelling
- Mathematical Biology
- Industrial Modelling
- Mathematical Analysis and computation
- Performance Modelling in Sport
Centre for Micro-Photonics (CMP)

Director: Prof Min Gu
Telephone: +61 3 9214 6776
Email: mgu@swin.edu.au
Website: www.swin.edu.au/research/soll/cmp/

The Centre for Micro-Photonics (CMP) is funded from the Chancellor's Strategic Initiatives Program at Swinburne University of Technology. CMP was established at the School of Biophysical Sciences and Electrical Engineering in January 2000. It is part of Swinburne Optics and Laser Laboratory (SOLL), a world-class centre for fundamental and applied research in lasers, microscopy and photonics. The CMP mission is to become an internationally leading centre in the area of micro-photonics and to develop a world-class laboratory for training research students. The CMP aim is to develop novel optoelectronic imaging methods for biological studies and industrial applications, to understand the working principles of optoelectronic instruments in biological and industrial applications, and to understand the mechanisms of light interaction with biological materials. CMP has been equipped with state-of-the-art optics and laser facilities for conducting research projects in the area of biophotonics, photonic data storage and devices, and nano-photonics.

Current research projects within CMP include three-dimensional microscopic imaging through tissue-like media for cancer detection, near-field scanning imaging based on optical trapping, two-photon fluorescence microscopy and its applications in biological studies, three-dimensional optical data storage, laser tweezers for single molecule detection, lasing in micro-cavities, and photonic crystals.

Centre for Molecular Simulation

Director: Prof Richard Sadus
Telephone: +61 3 9214 8773
Fax: +61 3 9819 0823
Email: RSadus@swin.edu.au
Website: www.it.swin.edu.au/centres/cms/

The primary aim of the Centre for Molecular Simulation (CMS) is to obtain a fundamental understanding of natural phenomena using molecular simulation. Molecular simulation refers to the application of computing techniques such as Monte Carlo (MC) and molecular dynamics (MD) to study the properties of atomic and molecular systems. Unlike other computing methods, molecular simulation provides exact results without relying on unnecessary simplifying assumptions or approximations. Recent advances in both algorithm design and dramatic improvements in high performance computing power mean that molecular simulation is on the verge of revolutionising the practice of science. It can provide accurate insights into the nature of materials where experiment is either impractical or impossible. Consequently it provides a valuable opportunity to make significant scientific discoveries. In particular, molecular simulation is likely to have a growing impact on both biotechnology and nanotechnology by providing the molecular blueprint for purpose-made molecules.

CMS provides a unique focal point for work on simulation, attracting some of the best scholars in the Asia-Pacific region and elsewhere. The interdisciplinary nature of the research has attracted researchers with backgrounds in physics, chemistry, chemical engineering and computer science. Examples of the fundamental research currently undertaken by CMS staff and postgraduate students include the investigation of:

- Molecular motors.
- Transport properties of fluids.
- Many-body intermolecular interactions on the properties of fluids.
- Phase transitions at high temperatures and pressures.
- Molecular rheology of polymeric fluids, and
- Thermodynamics and statistical mechanics

Centre for Neuropsychopharmacology

Director: Prof Con Stough
Telephone: +61 3 9214 6167
Email: cstough@swin.edu.au
Website: www.swin.edu.au/biosciences/neuropsych/

The Swinburne Centre for Neuropsychology includes the Organisational Psychology Research Unit, plus study areas in:

- Clinical and Forensic Psychology, Neuropsychology and Psychiatry
- Drugs and Driving
- EMF: Psychological and Neural Function
- Herbal and Nutrient Research
- Organisational Psychology
- Psychological Assessment
- Psychopharmacology and Drug Abuse
- Psychophysiology: Basic and Clinical

Centre for Psychological Services

Manager: Roger Cook
Telephone: +61 3 9214 6853
Fax: +61 3 9819 6857
Website: www.swin.edu.au/sbs/psychology/cps/cpsbannerhome.htm

The Centre offers the community a range of specialist psychological services. It is staffed by a team of experienced psychologists all of whom have advanced qualifications in their specific fields. The Centre is the latest educational and professional development initiative by an academic department which has achieved a widespread and enviable reputation for its teaching and research. The Centre provides three major services for the community:

- Counselling and psychotherapy
- Education and professional training
- Research and consultancy services

The Centre offers a range of services where the research and analysis skills of the staff are available for particular projects being funded by the corporate or government sectors. Specifically, staff offer their expertise in the design and execution of program evaluation and social research. Some areas which exemplify the type of work typically carried out are:

- Organisation development
- Social impact studies
- Evaluation of initiatives in social welfare programs

Centre for Software Engineering (CSE)

Director: Prof T.Y. Chen
Contact: Neroli Finlay
Telephone: +61 3 9214 5453
Website: info@it.swin.edu.au

The Centre for Software Engineering focuses its research on various aspects of software engineering. Current research areas include debugging, component technologies, formal methods, maintenance, reliability, requirement engineering, software visualisation and testing.

Graduate School of Integrative Medicine (GSIIM)

Head: Prof Avni Sali
Contact: Senior Administrator, Mrs Carol Low
Telephone: +61 3 9214 5463
Fax: +61 3 9214 8009
Email: clow@swin.edu.au
Website: www.swin.edu.au/gsim/gsiim_home.html

The Swinburne Graduate School of Integrative Medicine is designed to provide medical professionals with educational programs and research opportunities in complementary therapies. The establishment of the School in 1998 is a reflection of the growing number of medical practitioners who are combining complementary medicines and therapies with conventional medical practice. The Graduate School of Integrative Medicine benefits from partnerships with existing research activities at the University, particularly in the areas of applied neuroscience, biophysics and biomedical instrumentation, biochemistry, and psychology/psychophysiology.
Swinburne University Hospital, purchased with the help of the GSIM Advisory Board, is a powerful extension to the programs and research conducted at GSIM.

**Information Technology Innovation Group (ITIG)**

Head: Dr Ying Leung  
Telephone: +61 3 9214 8765  
Fax: +61 3 9214 8736  
Email: yleung@swin.edu.au  

The mission of the ITIG is to provide quality research and development services to the information technology industry. ITIG’s immediate goal is to attain a national reputation as a group that provides innovative and state-of-the-art computing solutions to industry problems. Currently, ITIG is working on a wide range of projects involving mobile computing technologies, pen-based computing devices, world wide web and internet applications, and multimedia development.

**The National Centre for Gender & Cultural Diversity**

Director: Dr Sue Lewis  
Telephone: +61 3 9214 8633  
Fax: +61 3 9214 8643  
Email: nncgcd@swin.edu.au  
Website: www.swin.edu.au/corporate/ncgcd  

The National Centre for Gender & Cultural Diversity is a leader in the field of diversity research and consultancy. We work with corporate, government and university clients, as well as community and Indigenous groups, to promote and celebrate diversity in work and study environments. We particularly specialise in researching and being a catalyst for change in the non-traditional fields of work and study for women – science, engineering and information technology.

Some recent projects and events include:
- Running cross cultural skills training and workshops  
- Researching women in leadership programs  
- Organising and hosting national awards for women in non-traditional areas  
- Developing innovative management development programs  
- Developing e-business options for employers wanting to recruit women in non-traditional areas  
- Managing the Swinburne Student Speakers Program which promotes technical courses to young women in senior secondary school. If you are interested in being a student speaker, please contact the Centre.

**Sensory Neuroscience Laboratory**

Director: Dr John Patterson  
Telephone: +61 3 9214 8862  
Fax: +61 3 9819 0856  
Email: j.patterson@swin.edu.au  
Website: www.swin.edu.au/bioscielccgg/SNL/  

The Sensory Neuroscience Laboratory is a Swinburne research initiative on the electrophysiological analysis of sensory function. Currently, olfaction, taste and vision are the key areas of research for which innovative approaches in the design of stimuli, stimulus delivery and methodology are providing solutions to applied and basic science questions.

Providing specialist research capacity for a variety of industries is considered as important an outcome as is undertaking of fundamental research. To this end the laboratory has had a number of applied projects which are supported by a number of industry bodies as well as individual companies.

The laboratory has the capacity to extend the range of applied and fundamental projects, either in the current areas of research, or into new avenues. There is a strong desire to increase the numbers and levels of collaborations as well as to undertake specific contract research for other organisations.

A strength of the Laboratory is the capacity to innovate in monitoring human and animal activity and physiology. When combined with the range of support from colleagues in the School and the rest of the University, the staff are able to integrate many disciplines into an effective team.
Postgraduate Courses
## Applied and Industrial Sciences

### Astronomy
- **S048** Graduate Certificate of Science (Astronomy)  
  - Online  
  - Duration: 0.5yr 1yr
- **S058** Graduate Diploma of Science (Astronomy)  
  - Online  
  - Duration: 1yr 2 yrs
- **S068** Master of Science (Astronomy)  
  - Online  
  - Duration: 1.5 yrs 3 yrs

### Computational Chemistry/Biomolecular Design
- **Z007** Master of Applied Science (Computational Chemistry/Biomolecular Design)  
  - H/D  
  - Duration: 1yr 2 yrs

## Business, Innovation and Management

### Accounting
- **A177** Graduate Certificate of Accounting  
  - H  
  - Duration: 0.5yr 1yr
- **A187** Graduate Diploma of Accounting  
  - H  
  - Duration: 1yr 2 yrs
- **A197** Master of Accounting  
  - H  
  - Duration: 3 yrs 3 yrs

### Applied Business
- **0046GAB** Graduate Certificate of Applied Business  
  - H  
  - Duration: 0.5yr 1yr

### Business Administration
- **B270** Graduate Certificate of Business Administration  
  - H, WP  
  - Duration: 0.5yr 1yr
- **B290** Graduate Diploma of Business Administration  
  - H, WP  
  - Duration: 1yr 2 yrs
- **B290** Master of Business Administration (MBA)  
  - H, WP  
  - Duration: 1.5 yrs 3 yrs

### eBusiness and Communication
- **L075** Graduate Certificate of Business (eBusiness and Communication)  
  - L, Online  
  - Duration: 0.5yr 1yr
- **L082** Graduate Diploma of Business (eBusiness and Communication)  
  - L, Online  
  - Duration: 1yr 2 yrs
- **L085** Master of Business (eBusiness and Communication)  
  - L, Online  
  - Duration: 1.5 yrs 3 yrs

### Entrepreneurship and Innovation
- **Y072** Graduate Certificate of Entrepreneurship and Innovation  
  - H, WP  
  - Duration: 0.5yr 1yr
- **Y082** Graduate Diploma of Entrepreneurship and Innovation  
  - H  
  - Duration: 1yr 2 yrs
- **Y291** Master of Entrepreneurship and Innovation (MEI)  
  - H  
  - Duration: 1.5 yrs 3 yrs

### Executive Administration
- **0045EEA** Graduate Certificate in Business (Executive Administration)  
  - P  
  - Duration: NA 1yr

### Food, Wine and Tourism Marketing
- **0046TD002** Graduate Certificate in Business (Food, Wine and Tourism Marketing)  
  - NA  
  - Duration: 1yr

### Human Resource Management
- **5801BA** Graduate Certificate of Business (Human Resource Management)  
  - H  
  - Duration: 0.5yr 1yr
- **A181** Graduate Diploma of Business (Human Resource Management)  
  - H  
  - Duration: 1yr 2 yrs
- **A196** Master of Business (Human Resource Management)  
  - H  
  - Duration: 1.5 yrs 3 yrs

### Marketing
- **A171** Graduate Certificate of Business (Marketing)  
  - H  
  - Duration: 0.5yr 1yr
- **A186** Graduate Diploma of Business (Marketing)  
  - H  
  - Duration: 1yr 2 yrs
- **A195** Master of Business (Marketing)  
  - H  
  - Duration: 1.5 yrs 3 yrs

### Quality Management
- **0045QLM** Graduate Certificate in Quality Management  
  - H  
  - Duration: 0.5yr 1yr

### Small Business Management
- **004SSBUS** Graduate Certificate in Business (Small Business Management)  
  - H  
  - Duration: NA 1yr

### Strategic Foresight
- **SF100** Graduate Certificate of Science (Strategic Foresight)  
  - H  
  - Duration: 1yr NA
- **SF200** Graduate Diploma of Science (Strategic Foresight)  
  - H  
  - Duration: 2 yrs NA
- **SF300** Master of Science (Strategic Foresight)  
  - H  
  - Duration: 3 yrs NA

### Supply Chain Management
- **0046SUPP** Graduate Certificate in Business (Supply Chain Management)  
  - H  
  - Duration: 0.5yr 1yr

### Higher Degrees by Research
- **A003** Doctor of Philosophy (Business)
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<th>Distance</th>
<th>Duration Full-time</th>
<th>Duration Part-time</th>
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### Postgraduate Course Chart

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### Postgraduate Course Chart

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### Communications

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#### Technical Communication

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### Writing

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### Abbreviation of Postgraduate Awards

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#### Graduate Certificates

**Graduate Certificate of Accounting**
A177 Graduate Certificate of Accounting

**Graduate Certificate of Applied Business**
0046GAB Graduate Certificate of Applied Business

**Graduate Certificate of Applied Science**
GSIM1 Graduate Certificate of Applied Science (Integrative Medicine)
GSIM3 Graduate Certificate of Applied Science (Nutritional and Environmental Medicine)

**Graduate Certificate of Arts**
N070 Graduate Certificate of Arts (Applied Media)
L071 Graduate Certificate of Arts (Writing)

**Graduate Certificate of Business**
L075 Graduate Certificate of Business (Business and Communication)
0046BEAA Graduate Certificate in Business (Executive Administration)
0046BD002 Graduate Certificate in Business (Food, Wine and Tourism Marketing)
S0001BA Graduate Certificate in Business (Human Resource Management)
A171 Graduate Certificate of Business (Marketing)
0046BSBU Graduate Certificate in Business (Small Business Management)

**Graduate Certificate of Business Administration**
B270 Graduate Certificate of Business Administration

**Graduate Certificate of Design**
DMMD32 Graduate Certificate of Design (Multimedia Design)

**Graduate Certificate in Disaster Management**
S0046CDIS Graduate Certificate in Disaster Management

**Graduate Certificate of Engineering**
M084 Graduate Certificate of Engineering (CAD/CAM)
C065 Graduate Certificate of Engineering (Construction Management) - Performance Building Surveying
M073 Graduate Certificate of Engineering (Industrial Engineering)
M060 Graduate Certificate of Engineering (Industrial Information Technology)
IRIND1 Graduate Certificate of Engineering (Industry)
IRMQ1 Graduate Certificate of Engineering (Metrology and Quality)
E102 Graduate Certificate of Engineering (Microelectronic Engineering)
IRMCR1 Graduate Certificate of Engineering (Microsystem Technology)
CE00 Graduate Certificate of Engineering (Pavement Technology)
M091 Graduate Certificate of Engineering (Robotics and Automation)

**Graduate Certificate of Entrepreneurship and Innovation**
Y072 Graduate Certificate of Entrepreneurship and Innovation

**Graduate Certificate in Information Technology**
1071 Graduate Certificate in Information Technology

**Graduate Certificate of Multimedia**
J076 Graduate Certificate of Multimedia

**Graduate Certificate in Quality Management**
0046QLM Graduate Certificate in Quality Management
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### Abbreviation of Postgraduate Awards

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**Masters (by research)**

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**Professional Doctorate in Design**

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**Professional Doctorate of Psychology**

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Postgraduate General Information

Application procedure
All applications for enrolment in postgraduate courses other than Masters degree by research and publication or PhD must be made to the Admissions Officer from whom application forms are available. Information on application for admission to postgraduate courses can be accessed through the relevant Schools, or downloaded from the Swinburne website: www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

Australian Foresight Institute +61 3 9214 5982
Australian Graduate School of Entrepreneurship +61 3 9214 5855
Brain Sciences Institute +61 3 92148822
Centre for eBusiness and Communication +61 3 9215 7000
Industrial Research Institute Swinburne (IRIS) +61 3 92148600
International Disaster Management Centre +61 3 9214 5146
National School of Design +61 3 9214 6882
School of Biophysical Sciences and Electrical Engineering +61 3 9214 8859
School of Business +61 3 9214 5046
School of Engineering and Science +61 3 9214 8372
School of Information Technology +61 3 9214 5505
School of Mathematical Sciences +61 3 92148484
School of Social and Behavioural Sciences +61 3 9214 5209
Swinburne Graduate School of Integrative Medicine +61 3 9214 5463
TAFE School of Business and eBusiness +61 3 92148114

Closing dates for 2003 entry
Closing dates for postgraduate coursework programs differ between schools; contact the relevant school for more information. Applications for postgraduate programs by research can be made at any time of the year.

International students
Applications by international students for entry into all Swinburne courses other than Masters degree by research and publication or PhD must be made through the International Student Unit. Due to Australian Government regulations, part-time study is not available to full-fee paying international students. Telephone: +61 3 9214 8712 or +613 9214 8647.

Entrance requirements
Applicants for admission to postgraduate courses are normally expected to have completed a degree or diploma. The specific requirements vary from course to course: some are open to those with any tertiary qualification, others may require a qualification in a specific discipline or range of disciplines.

Fees
Fees apply to all postgraduate coursework programs; contact the relevant school for further information.

Higher Degrees by Research
The course costs of most Higher Degrees by Research programs are covered by the Research Training Scheme or Divisional Fee Waivers.

Research Training Scheme (RTS)
The RTS provides Commonwealth-funded higher degree by research (HDR) students with an 'entitlement' to a HECS exemption for the duration of an accredited HDR course, up to a maximum period of four years' full-time equivalent study for a Doctorate by research and two years' full-time equivalent study for a Masters by research.

Divisional Fee Waivers
The Divisional Vice Chancellor offers a number of fee waivers for students undertaking Higher Degrees by Research for both citizens of Australia and International students (SPRS) in most areas of study. It is advisable to check with your School/Institute or CRGS to ascertain if your proposed area of study is covered under this scheme.

Higher Degrees by research
All initial enquiries regarding higher degrees by research (masters, PhDs or professional doctorates) should be made to the School or discipline area in which the applicant is interested in undertaking the degree. For more general enquiries on the fields in which supervision may be available, contact the Swinburne Graduate Research School on 9214 5412.

Enrolment and admission to candidacy are separate processes, both of which must be completed in accordance with University regulations. Admission to candidacy must be approved by the research committee in the relevant School or Institute and the Higher Degrees Committee. Enrolment takes place at the Swinburne Graduate Research School. Further information on the steps involved in candidacy is available from Swinburne Graduate Research School.

Nested suite of programs
A number of disciplines offer suites of programs (Graduate Certificate, Graduate Diploma and Masters) which enable students the flexibility of entry and exit points. Suites are available in a number of disciplines, including business administration, information systems, innovation, management, organisation dynamics, risk management, statistics, and telecommunications.

Graduate Certificate
This is usually an entry level postgraduate qualification for applicants with several years experience and is an alternative for those without any formal undergraduate qualifications and is normally completed in one year of part-time study.

Graduate Diploma
Generally a one year full-time course or a two year part-time course. Applicants must normally have an undergraduate degree, though not necessarily in the proposed areas of study. Applicants without a degree, but with substantial appropriate experience, may also be eligible for entry.

Admission with Advanced Standing
Graduates with good results in a relevant Graduate Certificate course are eligible to apply for a Graduate Diploma. Students may receive credits for some or all subjects already studied, thereby reducing the time required to complete the Graduate Diploma.

Masters degree by coursework
The duration of the course varies, but the Masters is generally one to two years full-time (or equivalent part-time). Applicants must normally have an undergraduate degree.

Admission with Advanced Standing
Graduates with good results in a relevant Graduate Diploma course are eligible to apply for a Masters by coursework. Students may receive credits for some or all subjects already studied, thereby reducing the time required to complete the Masters.

Postgraduate Education Loans Scheme (PELS)
Most postgraduate coursework programs are fee paying. HECS places are available in all research programs. The Postgraduate Education Loans Scheme (PELS) is available to all students other than Masters degree by research and publication or PhD. Eligible students will be able to borrow up to the amount of the tuition fee being charged by the institution for each semester for the duration of their course. For more information, see: www.swin.edu.au/hed/postgrad/newsite/p_els.html

Research Scholarships
A number of different research scholarships are available. Contact the Swinburne Graduate Research School for details on +61 3 9214 5412. Or visit the website at: www.swin.edu.au/research/scholarships.htm
Student Administration Enquiries Office

The Student Administration Office provides information and procedural advice on admissions, examinations and awards. Other functions include processing identity cards, production of passport photos, providing enrolment processing forms (e.g. amendment to enrolment form), result certificates, academic statements, enrolment status letters, authorising travel concession forms and international student card forms, certifying University documents, maintenance of students’ result records, hire of lockers and academic gowns.

Location and office hours

Hawthorn campus

Enquiries: +61 3 9214 8088, +61 3 9214 8039
The Student Administration Enquiries Office is located in Room AD121, Administration Building (AD), John Street.
Office hours are as follows:
During teaching weeks pre-census date:
8.30am - 6.00pm Monday to Thursday
8.30am - 5.00pm Friday
During teaching weeks post-census date and non-teaching weeks:
8.30am - 5.00pm Monday to Friday
Note: The office is closed on public holidays.

Prahran campus

Enquiries: +61 3 9214 6744
The Student Administration Enquiries Office is located in Room F107, Building F, 142 High Street, Prahran. Office hours are as follows:
8.30am - 5.00pm Monday to Friday
Note: The office is closed on public holidays.

Lilydale campus

Enquiries: +61 3 9215 7000
Office hours are as follows:
8.30am - 5.30pm Monday to Friday
Note: The office is closed on public holidays.

Swinburne Graduate Research School (SGRS)

Swinburne Graduate Research School exists to provide a University-wide point of contact and communication for all postgraduate research students, to coordinate research services, and to ensure quality in research training. The School runs regular seminars and workshops to assist staff and students to develop their research skills. It also offers induction programs for new researchers and postgraduate Higher Degree by Research students (doctoral and masters by research), offers advice on resources and provides a focus for interaction and development. SGRS incorporates the Office of Research, the Office of Graduate Studies and Industry Liaison.

Higher Degrees by Research and Scholarships

The Office of Graduate Studies is responsible for the administration of PhD and Masters by Research degrees and coordination of other research studies. It provides prospective students with a variety of information on research, masters and doctoral study, including: details about admissions to candidature, expected duration of candidature, progress report requirements, Research Training Scheme (RTS) places and fee exemptions, scholarships, guidelines for thesis presentation, guidelines for supervision, and University policies on research. The Office also provides information, application forms and guidelines for a number of Australian scholarships for doctoral and research Masters degrees. Information is also available on other scholarships offered by non-profit organisations, and on overseas scholarship opportunities.

For further information about doctoral and master by research study and scholarships, telephone +61 3 9214 5412.

Office of Research

The Office of Research provides advice on University policies for the conduct of research and the implementation of Swinburne’s Research Management Plan. It also publishes Swinburne’s annual Research Report, which provides an overview of the University’s major research centres, research interests of staff, and details of current research projects.

The Office administers research grants and contracts across the University, ethics committee approvals and intellectual property issues. External organisations seeking advice on Swinburne’s research capabilities should contact the Office on +61 3 9214 5225.

The Office provides information on research grants and other opportunities for research funding, as well as details of programs where graduates are employed specifically by an organisation to conduct research. A weekly up-date detailing current opportunities is distributed widely around the University.

Graduate School of Integrative Medicine (GSIM)

The Swinburne Graduate School of Integrative Medicine is designed to provide medical professionals with educational programs and research opportunities in complementary therapies. The part-time courses, currently delivered at Hawthorn campus and also to be available through correspondence, combine the scientific principles of conventional medical training with scientifically proven complementary therapies.

The establishment of the School in 1998 was a joint initiative of the University, the Australasian College of Nutritional and Environmental Medicine (ACNEM) and the Australian Integrative Medicine Association (AIMA) and is a reflection of the growing number of medical practitioners who are combining complementary medicines and therapies with conventional medical practice.

Structure

All the component subjects in the Graduate Diploma and Graduate Certificate programs of the School can be taken as single subjects, or as a combination of single subjects. Subjects run for either 4 weeks (10 credit points) or 8 weeks (20 credit points) with 5 contact hours per week. The completion of each subject accumulates credit towards a qualification. All subjects have been allocated CME points in the QACE Program by the RACGP. Courses are delivered on-campus and via distance education.

Research

Professor Avni Sali will lead research into disease prevention and health promotion with an emphasis on nutritional and environmental medicine, exercise and mind/body medicine. The Graduate School of Integrative Medicine will benefit from partnerships with existing research activities at the University, particularly in the areas of applied neuroscience, biophysics and biomedical instrumentation, biochemistry, and psychology.

Opportunities will be available for students to conduct research projects within a masters course or at PhD level. The selection of complements therapy research will be based on intensive examination of the scientific evidence in each area in order to identify promising lines of inquiry. The guarantee of scientific validity of the Graduate School’s research comes from a commitment to follow rigorous scientific methods at all times.

Swinburne Graduate Society of Business

The Graduate Society of Business is the oldest of the Swinburne alumni chapters, having been formed in 1977 from the original graduating students of the first course of the Postgraduate/Diploma in Business Administration.

Now in its twenty first year, the Society has a network of over one thousand past students, and encompasses and supports all current and past students in the Graduate Certificate, Postgraduate Diploma and Masters programs.

The Society operates as an independent official body, represented by a committee, and relies on members’ cooperative efforts to assist the cause of industry relevant and supported further education, extension of qualifications and industry networking both internally and externally to the University.

Current activities include regular newsletters, seminars, meetings and speakers, an extensive personal network, working business lunches, library membership and other benefits as part of the wider Alumni of the University.

For further information contact:
Brian Golland, PO Box 145, Camberwell 3124
Telephone: +61 3 9672 3548 BH, +61 3 9435 6614 AH
Fax: +61 3 9432 2500
Swinburne Alumni Office on +61 3 9214 8705.
APPLIED AND INDUSTRIAL SCIENCES

ASTRONOMY

S048 Graduate Certificate of Science (Astronomy)
S058 Graduate Diploma of Science (Astronomy)
S068 Master of Science (Astronomy)

This program covers the fundamental concepts and 'big questions' of modern astronomy, in order to equip students with a good overall understanding and general knowledge about modern astronomy, rather than training as a professional astronomer.

The Graduate Certificate course provides subjects suitable for members of the general public who wish to obtain an overview of astronomy without necessarily proceeding further, with the option to continue to more advanced subjects and qualifications.

The intention of the Masters course is to provide scope for more specialist study in astronomy, plus opportunities for major project work, while still maintaining an emphasis on learning about the fundamental concepts and 'big questions' of modern astronomy.

Campus
Online

Course duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time

Structure
As the course is offered in a fully online mode, there are no traditional formal contact hours involving lectures, tutorials, laboratories etc. However, students will be required to work through the course material (supplied on CD-ROM), undertake required readings from textbooks and the Internet, contribute regularly to assessable asynchronous newsgroup discussions, as well as undertake assignments and project work. The equivalent student contact hours for each subject is 5 hours per week during academic semesters.

The Graduate Certificate requires the completion of four subjects for a total of 50 credit points.

The Graduate Diploma requires the completion of eight subjects for a total of 100 credit points.

The Masters requires the completion of twelve subjects for a total of 150 credit points.

Each subject has a value of 12.5 credit points.

Course subjects
Semester 1
HET602 Exploring the Solar System
HET603 Exploring Stars and the Milky Way
HET604 Exploring Galaxies and the Cosmos
HET605 Theories of Space and Time
HET607 History of Astronomy
HET608 Astrophotography and CCD Imaging
HET610 Studies in Space Exploration
HET611 Introduction to Stellar Astrophysics
HET612 Major Project – History of Astronomy
HET614 Major Project – Computational Astrophysics

Semester 2
HET602 Exploring the Solar System
HET603 Exploring Stars and the Milky Way
HET604 Exploring Galaxies and the Cosmos
HET606 Tools of Modern Astronomy
HET607 History of Astronomy
HET608 Introductory Radio Astronomy and the Search for Extra Terrestrial Intelligence
HET612 Major Project – History of Astronomy
HET614 Introduction to Particle Physics and High Energy Astrophysics
HET615 Major Project – Astrophotography and CCD Imaging
HET616 Great Debates in Astronomy
HET617 Major Project – Computational Astrophysics

Note: not all of the above subjects will be conducted every semester. Electives will usually be offered subject to satisfactory enrolment numbers. Students should contact the School Administration Office to obtain further information about subject offerings.

Entry requirements
A degree or diploma from a recognised tertiary institution (or approved equivalent) or relevant experience, depending on the level of entry.

Entry to the Graduate Certificate is restricted to residents of Australia.

Entry to the Graduate Diploma or Masters program is available Worldwide.

Students who are admitted to the Graduate Certificate, and who obtain credits or above will qualify for admission, with full credit, to a higher level of the program.

Where necessary, the selection process may include an interview by telephone to establish an applicant’s level of experience in, or knowledge of, astronomy.

Students are expected to be computer literate and to have internet access outside of Swinburne.

Application procedure
Application is available on our website at: astronomy.swin.edu.au/sao/

Further information
Contact the School of Biophysical Sciences and Electrical Engineering
Telephone: +61 3 9214 8859
Fax: +61 3 9819 0856
Email: astro@swin.edu.au
Website: astronomy.swin.edu.au/sao/

COMPUTATIONAL CHEMISTRY/BIO MOLECULAR DESIGN

2087 Master of Applied Science (Computational Chemistry/Biomolecular Design)

The masters degree course in computational chemistry has been developed to fill a niche for an advanced course in computational chemistry. The course has been developed for provision via the Internet, in recognition of the specialised nature of the course and the likelihood that enrolments from any one geographical area would be small.

Aims & Objectives

The aim of the course is:

- To develop in students a mastery of the broad scientific principles underlying computational chemistry, thus providing a sound theoretical base.
- To achieve mastery of software applications used in computational chemistry.
- To develop in students a thorough understanding of the methods of computational chemistry and competence in their application, so that students are able to comprehend and analyse problems and obtain satisfactory solutions which show both originality and resourcefulness.
- To prepare students for possible careers in industry by using applications and problems that are relevant to industry.
- To prepare students for possible PhD studies by providing a general base from which specialised PhD research may proceed.
- To develop in students mastery of the most modern technology in the delivery of education, knowledge networks and informational retrieval by the use of interactive World Wide Web (www) pages (This technology will include quality calculations performed over the Internet by students, interactive self-assessment pages, use of molecular images, and many other materials. This innovative approach encourages self-paced learning with the
students taking responsibility for their own learning. At the same time it allows rapid and effective access to tutors and to other students).

- To produce graduates who can fully take advantage of the revolution in information technology and play a constructive role in the changes that this technology brings to society.

In order to achieve these aims, students will undertake most of their studies via the Internet. A small research project will be undertaken at one of the sponsoring universities. The course aims to utilise expertise from several universities to provide an educational experience that would not be available in one university.

**Campus**

Hawthorn/Distance Education.

**Career opportunities**

Computational chemistry is a new science with considerable potential to assist industries such as the pharmaceutical industry and industries involved in designing new materials. Few students are currently trained in this area. Industry demand for high level skills in this new science can currently only be met by hiring persons who have undertaken research degrees in one or the specialised areas within computational chemistry.

**Professional recognition**

The course is intended to provide postgraduate experience in computational chemistry, molecular modelling and biomolecular design.

**Course duration**

Twelve months full-time or equivalent part-time.

**Structure**

Largely offered via the Internet, this course is provided jointly by Swinburne – Hawthorn campus, Northern Territory University, Victorian College of Pharmacy – Monash University, and the University of Tasmania. The full-time course includes:

1. Eight months of coursework which may be completed by Distance Education using the Internet.
2. A period of one month during which the student will carry out a series of intensive exercises to finalise assessment on the units carried out in 1. The purpose of these exercises is to consolidate the work carried out on the Internet and to ensure that the work carried out previously is the student's own work.
3. A three-month period of full-time on campus study in one of the participating universities in which the student will carry out a research and write a thesis. The project report will be examined by the supervisor and one other person.

**Part-time study**

The period of Distance Education using the Internet, extending over a period of eight months for full-time students may be extended up to twenty months for part-time students. The other components will normally be available only on a full-time basis.

**Course subjects**

**Compulsory Topics**

- HSC900 The Scope of Computational Chemistry
- HSC901 Molecular Modelling
- HSC902 Approximate Quantum Chemistry
- HSC903 Basic Quantitative Structure Activity Relationships (QSAR)
- HSC904 Ab initio Quantum Chemistry
- HSC905 Molecular Mechanics and Dynamics

**Electives (one of):**

- HSC906 Advanced Molecular Modelling
- HSC907 Advanced ab initio Quantum Chemistry
- HSC908 Advanced QSAR

All students:

- HSC909 Research Project and Report

**Entry requirements**

A degree in chemistry from a recognised tertiary institution or approved equivalent, plus one or two years of appropriate experience. This may include an honours year, a graduate diploma or experience in teaching or industry. Access to the internet with a graphics WWW browser, if the course is to be done partially in distance mode.

Assumed knowledge is that of a normal degree in chemistry with a reasonable level of mathematics and computer literacy.

English at IELTS Band 6.

**Application procedure**

Candidates must submit an application form to the administrator at the University where they feel they are most likely to do their research project.

**Further information**

Dr Margaret Wong, School of Engineering & Science
Telephone: +61 3 9214 8542
Fax: +61 3 9819 0834
Email: mgw@swin.edu.au

**BUSINESS, INNOVATION and MANAGEMENT**

**ACCOUNTING**

A177 Graduate Certificate of Accounting
A187 Graduate Diploma of Accounting
A197 Master of Accounting

Accounting is the language of business and skills mastered in its study are relevant to many areas of professional interest: marketing, economic forecasting, finance, engineering and many others. A knowledge of accounting and finance can help individuals and business organisations understand how to use money (resources) to the best advantage. Gaining and maintaining wealth are important elements in a market economy.

The Master of Accounting forms the final stage in a three stage nested suite of programs consisting of:

1. Graduate Certificate of Accounting
2. Graduate Diploma of Accounting
3. Master of Accounting

The Graduate Certificate is designed for students who wish to obtain a sound introduction to concepts and procedures in accounting and finance. The course develops the technical, practical, analytical and creative skills necessary to support a successful career in accounting and finance. It provides an entry level into tertiary study and the opportunity to obtain a tertiary qualification for appropriately qualified candidates.

The Graduate Diploma further develops the analytical and creative skills which are necessary when dealing with accounting and finance issues within planning and decision-making. Completion with a credit average provides entry into the final qualification, the Master of Accounting.

The Master of Accounting offers the opportunity to specialise in Accounting for professional recognition. The course builds on the skills and knowledge acquired in the Graduate Certificate and Graduate Diploma.

**Aims & Objectives**

At the completion of the program graduates can expect to:

- Have developed the basic technical and practical skills necessary to support a successful career in accounting and finance.
- Be equipped with suitable skills to continue with further postgraduate study in accounting and finance.

**Campus**

Hawthorn

**Career opportunities**

This course provides an avenue for graduates to achieve professional recognition and help fill the shortage of professionally recognised accountants. As many candidates may already be established in a business career, the key vocational
outcomes will arise from better current job performance together with new opportunities opening in the accounting and finance areas.

Professional recognition
On completion of the Master degree, graduates will become provisional members of CPA Australia and be eligible for admission into the CPA program and the Professional Year Programme for the ICAA.

Graduates who hold an accounting qualification from a recognised overseas university or equivalent, upon successful completion of the Graduate Diploma of Accounting, are normally eligible for membership of CPA Australia.

Course duration
Graduate Certificate: one semester full-time or one year part-time
Graduate Diploma: one year full-time or two years part-time.
Masters: one and a half years full-time or three years part-time. Students who have not completed an undergraduate degree will be required to complete 16 subjects over two years full-time or four years part-time study.

Structure
Students normally enrol for four subjects per semester for full-time study or two subjects per semester for part-time study and will undertake the equivalent of three hours per subject per week for twelve weeks each semester or the equivalent in block mode.

NOTE: Part-time classes will normally be held between 8.00am and 1.00pm on Saturdays and will be taught in block mode.

Course subjects
Year 1 (Graduate Certificate)
HBC454 Accounting Principles
HBC455 Accounting Information Systems
HBC457 Business Modelling and Analysis
HBL458 Australian Contract Law
Year 2 (Graduate Diploma)
HBC529 Corporate Financial Management
HBC531 Financial Reporting
HBC532 Managerial Accounting
HBL528 Australian Company Law
For progression from second year to third year, students will normally be expected to have achieved a credit average or better.

Year 3 (Master of Accounting)
HBC614 Company Auditing
HBC615 Financial Accounting Theory
HBC616 Income Tax Law
HBE613 Economics

Students without an undergraduate degree will also need to complete the following subjects:
HBC617 Financial Risk Management, or approved elective
HBC618 Personal Investment, or approved elective
HBC622 Research Methodology and Report, or two approved electives

Entry requirements
Applicants should normally hold an undergraduate degree in any discipline other than accounting from a recognised university or equivalent institution. Places will also be available to applicants without tertiary qualifications but who have 5 years approved work experience.
A special entry provision is available for graduates who hold an overseas qualification in accounting, and are seeking provisional membership of the CPA Australia or ICAA.

Application procedure
Application forms are available from the School of Business or can be downloaded from our website at www.swin.edu.au/hot/postgrad
International students should contact the International Student Unit on (03) 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information
Contact the School of Business on +61 3 9214 5046
Fax: +61 3 9619 2117
Email: busheht3.swin.edu.au

APPLIED BUSINESS
0046GAB Graduate Certificate of Applied Business

This postgraduate course has been designed to meet the needs of mature age students who wish to broaden the skills already gained in an undergraduate program, or who want to develop vocational knowledge and skills in a new professional area.

Campus
Hawthorn

Course duration
Six months full-time or one year part-time.

Structure
The course consists of four compulsory subjects with each subject consisting of a number of modules.

Course subjects
Marketing
Introduction to Marketing
Implementing Marketing
Management Communication
Report Writing
Management for Marketing
Computer Business Applications
Global Trading Issues
International Marketing
Services Marketing
International Cultural Issues
International Trade and Finance

Tools for Quantitative Analysis
Economic Analysis
Statistics for Management
Accounting for Managers

Entry requirements
A degree or diploma from a recognised tertiary institution (or approved equivalent) and at least three years work experience, or five years relevant experience in a responsible position in business or industry.

Application procedure
Contact the course convenor, Jacqueline Tulk on (03) 9214 5107
Facsimile: (03) 9618 3658
Email: j.tulk@swin.edu.au

Further information
Contact the School of Business and eCommerce on (03) 9214 5329
Email: tafebus@groupwise.swin.edu.au
Website: www.tafe.swin.edu.au/buscom
BUSINESS ADMINISTRATION

B270 Graduate Certificate of Business Administration
B280 Graduate Diploma of Business Administration
B290 Master of Business Administration (MBA)

The Swinburne MBA not only offers the opportunity to acquire contemporary management knowledge and skills, it also provides students with the ability to apply that knowledge in an innovative, creative and entrepreneurial way.

The Swinburne MBA overarching themes of entrepreneurship, innovation and international business address the transitional realities of moving from the old to the new economy in key areas: Leadership, Strategy, eBusiness, and Finance.

Specialisations in these four key areas are offered through advanced electives and an integrating project.

Aims & Objectives

The Swinburne MBA is designed to:
- Develop the capacity to successfully start new ventures and manage enterprises that operate in a complex, global and competitive environment.
- Meet the demands of business and industry to achieve and sustain international competitive advantage.
- Apply the theory to "real-life" situations.
- Offer small, highly interactive and dynamic classes, delivered by commercially experienced practitioners and academics carefully selected for their practicality, excellence in teaching and outstanding performance in both intellectual and business practice.

At the completion of the program, it is expected that graduates will:
- Have a deep understanding of innovation processes and what it takes to commercialise and manage the practical application of innovation.
- Be recognised for their hands-on leadership ability, enhanced by an experiential understanding of the multifaceted factors that are required to develop new initiatives or to transform mature enterprises.
- Have a clear understanding of the new realities (old versus new economy) facing enterprises and be capable of operating effectively in such an environment.
- Have the capacity to develop and maintain an organisational culture which values creativity, diversity and a cross disciplinary approach to managing organisational effectiveness.
- Have a range of skills and knowledge that enhances business communication and leadership.
- Be renowned for their capacity to 'make a difference'.

Campus

Hawthorn, Workplace Training

Career opportunities

The Swinburne MBA prepares students for a successful career in starting and/or managing high growth enterprises in a complex, global and competitive environment.

Course duration

Graduate Certificate: two trimesters part-time or one trimester full-time.
Graduate Diploma: five trimesters part-time (including Stage 1) for two to three trimesters full-time.
Master: seven trimesters part-time or three trimesters of full-time study.

Structure

The Master of Business Administration (MBA) incorporates the Graduate Certificate and Graduate Diploma of Business Administration. The nested program is styled on a "4+6+4" basis.

The Graduate Certificate of Business Administration consists of 4 core subjects (Stage 1 of the MBA suite). These are normally completed over two trimesters of part-time study, or may be completed in one trimester of full-time study. Stage 1 of the program, in particular, requires a substantial commitment to developing basic skills. To complete the Graduate Certificate of Business Administration, students must successfully complete the four core subjects of Stage 1 of the program.

The Graduate Diploma of Business Administration consists of the 4 core subjects from the Graduate Certificate of Business Administration (Stage 1 of the MBA suite) plus a further 6 core subjects. These additional 6 core subjects are normally completed over an additional three trimesters of part-time study, or may be completed in an additional two trimesters of full-time study. To complete the Graduate Diploma of Business Administration, students must successfully complete 10 subjects - the four core subjects of Stage 1 and the six core subjects of Stage 2.

The MBA thus consists of the 10 subjects of the Graduate Diploma of Business Administration (the MBA core) plus two advanced electives and an Integrating Project equivalent to two subjects; OR instead of doing the Project a student can do a total of four advanced electives. These final four Stage 3 subjects are normally completed over an additional two trimesters of part-time study or may be completed in one additional trimester full-time. To complete the Master of Business Administration, students must successfully complete 14 subjects - the four core subjects in Stage 1, the six core subjects in Stage 2, and either the two advanced electives of Stage 3 and the Integrating Project (equal to 2 subjects) OR four advanced electives.

The Graduate Certificate of Business Administration equals 50 credit points, the Graduate Diploma of Business Administration equals a further 75 credit points and the Master of Business Administration equals 175 credit points, giving a total of 175 credit points for the complete MBA suite.

Course subjects

Stage 1

Graduate Certificate

HGM501 Organisation Dynamics
HGM502 Strategic Marketing
HGM503 Financial Data and Decision Making
HGM505 Opportunity Evaluation

Stage 2

Graduate Diploma

HGM551 Leading, Following and Team Dynamics
HGM552 Finance for High Growth Businesses
HGM553 The Business Plan
HGM554 eBusiness Design for Competitive Advantage
HGM555 Entrepreneurial Strategy
HGM556 Innovative Leadership

Stage 3

Master

HGM60X Advanced Elective 1
HGM6XX Advanced Elective 2
HGM601A Integrating Project (half unit)
HGM601B Integrating Project (half unit)
HGM601C Integrating Project (full unit)

OR

HGM60X Advanced Elective 1
HGM6XX Advanced Elective 2
HGM6XX Advanced Elective 3
HGM6XX Advanced Elective 4

Advanced Electives include:

HGM608 Consulting Processes for Organisations
HGM607 Organisational Change Management
HGM609 Entrepreneurial eBusiness and Strategic Transformation
HGM609 Building an Integrated eBusiness Infrastructure
HGM610 Strategy for Competitive Advantage
HGM611 Management and Innovation
HGM612 Capital Markets and Tax for High Growth Business
Entry requirements
An appropriate undergraduate qualification at a credit level (GPA 2.5, GMAT 600 or equivalent) from a recognised tertiary institution. In some cases, additional preliminary study may be required.
AGSE attracts highly motivated part-time candidates with at least two years of full-time, post-university work experience. Full-time candidates with an appropriate undergraduate degree may be admitted with less than two years work experience.
Candidates who do not hold an appropriate qualification but who have significant relevant work experience (normally five years or more) and evidence of academic capability may initially be admitted to the Graduate Certificate (Stage 1). Progression to enrolment in the Masters will require satisfactory completion of Stage 1.
Students whose first language is not English will need to provide evidence of advanced proficiency in written and spoken English by: an academic International English Language Testing System (IELTS) Band 6.5 with no single band less than 6.0. Applicants with lower scores may undertake additional English studies (ELICOS) at Swinburne University in order to meet the entry requirements.

Application procedure
Application forms are available from the Australian Graduate School of Entrepreneurship (AGSE) or can be downloaded from the AGSE website at: www.swin.edu.au/agse under “Admissions”. International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information
Contact the Australian Graduate School of Entrepreneurship (AGSE),
Telephone +61 3 9214 8512/5215241
Email: agse@swin.edu.au
Website: www.swin.edu.au/agse

eBUSINESS AND COMMUNICATION

L075 Graduate Certificate of Business (eBusiness and Communication)
L082 Graduate Diploma of Business (eBusiness and Communication)
L085 Master of Business (eBusiness and Communication)

The Master of Business (eBusiness and Communication) prepares students for a successful career in starting or managing eBusiness enterprises, including business owners, consultants, managers and specialist professionals. The program offers participants the opportunity to become familiar and confident, in all aspects of eBusiness, in readiness for effective management in a complex, competitive and global environment.

Aims & Objectives
At the completion of the program, it is expected that graduates will:
- Understand innovation in the context of eBusiness and be able to manage the transition to eBusiness, design enterprises for competitive advantage and develop and implement entrepreneurial strategies for eBusiness.
- Analyse the eBusiness environment in terms of human resource management, intercultural implications and regulations.
- Communicate effectively using eBusiness tools for the purpose of different business functions and relationship management, including managing virtual communities.
- Confidently approach and manage technology and information technology related projects and have established effective patterns of lifelong proactive learning.
- Be recognised for their application of multimedia tools in making eBusiness presentations, leading teams, managing projects, influencing attitudes and behaviour, and driving through change.
- Be motivated and able to think towards the future and manage the iterative processes that are imperative to eBusiness success.
- Apply knowledge and skills to generate high levels of sustainable eBusiness performance while keeping a balance between financial, social and environmental issues impacting on sustainability.

The program is designed in ways that will ensure all students have opportunities to achieve these objectives in a general sense, while being able to specialise through choice of electives.

Campus
Lilydale/Online

Career opportunities
This course adds value to professional career paths in business, management and related areas.

Course duration
Graduate Certificate: one semester full-time (144 hours) or two semesters part-time.
Graduate Diploma: two semesters full-time or four semesters part-time.
Master: three semesters full-time or six semesters part-time.
An accelerated program is available in terms of elapsed time, subject to negotiation and satisfactory progression rates for online students.

Structure
The Master of Business (eBusiness and Communication), continuing from the Graduate Certificate and Graduate Diploma levels, consists of an additional four subjects (700 level), each worth 12.5 credit points. plus one capstone project based subjects (800 level) worth 25 points. In summary, to complete the Master of Business (eBusiness and Communication) a total of thirteen subjects worth 175 credit points must be completed.
Students may take elective subjects from any of the areas. All electives are offered fully online and are available in the seminar based flexible mode subject to demand.

Course subjects
Graduate Certificate
LEB500 Managing the Transition to eBusiness
LEB503 The eBusiness Environment

Masters
LEB700 Strategic Transformation and Entrepreneurial eBusiness
LEB701 Virtual Communities + eBusiness and Society
LEB800 eBusiness and Communication Work Integrated Project (25 pts)

LEB702 Building an Integrated eBusiness Infrastructure
LEB703 eBusiness Regulation
LEB705 Interactive Multimedia Production for Business
LEB706 Global Sustainability

Other subjects available for in-house or negotiated customisation programs only include:
LEB504 eBusiness and Communication Project
ENTREPRENEURSHIP AND INNOVATION

Y072  Graduate Certificate of Entrepreneurship and Innovation
Y082  Graduate Diploma of Entrepreneurship and Innovation
Y291  Master of Entrepreneurship and Innovation (MEI)

This program has been developed for people who intend to start new, innovative businesses or play a leading role in an innovative unit of an established organisation. The core of the program provides the theoretical and practical skills required to produce a comprehensive business plan integrating marketing, organisational behaviour and financial planning via a flexible corporate strategy. This program provides professional capabilities not only to potential entrepreneurs, but also to entrepreneurial professionals and managers with an entrepreneurial outlook who wish to stay within an organisation and practise entrepreneurship by generating new ventures under the corporate umbrella.

The first eight subjects of the Master of Entrepreneurship and Innovation program are those outlined for the Graduate Certificate and the Graduate Diploma of Entrepreneurship and Innovation. The final four subjects extend the student beyond the frontiers of new venture business planning to a greater depth of understanding of the theory and practice of ongoing entrepreneurship. Teaching methods also change to include a greater emphasis on case analysis and self-initiated projects.

Aims & Objectives
The primary aims of the program are:

- To develop a concentration on the planning and control of rapid business growth.
- To devote constant attention to integrating knowledge through interdisciplinary approaches, rather than separating knowledge into functional specialties.
- To commit to the notion of "theory for practice's sake" - applying leading edge theory to seek practical solutions to complex real-world problems.

It has been shown that graduates of this integrated program are capable of starting, developing and managing new business opportunities to achieve company growth.

Campus
Hawthorn

Career opportunities
Successfully start and/or develop new enterprises, and enhance career development within organisations.

Professional recognition
Not applicable.

Course duration
Graduate Certificate: six months full-time or one year part-time.
Graduate Diploma: one year full-time or two years part-time.
Masters: three years part-time and one-a-half years full-time.

Structure
Each subject is either taught in the traditional mode of one (three-hour) night class per week over a twelve week semester or in 'block mode' (usually six days over a twelve week period). Students are expected to spend a minimum of the equivalent class contact hours per week in private study and/or team project work.

Course subjects

Stage 1  (Graduate Certificate)

HE161  The Entrepreneurial Organisation
HE281  New Venture Finance
HE381  New Venture Marketing
HE1891  Opportunity Evaluation

Stage 2  (Graduate Diploma)

HE711  Managing The Growing Business
HE1721  Financial and Legal Strategies
HE741  Creativity and Innovation
HE1791  The Business Plan

Stage 3  (Masters)

HE281  Growth Venture Evaluation
HE1851  Entrepreneurial Strategy
HE18XX  Advanced Elective
HE18XX  Advanced Elective

Advanced electives include:
HE1800  Supervised Practical Project (Double Unit)
HE881  Entrepreneurial Research Project (Double Unit)
OR
two advanced elective units to be chosen from:
HE831  Global Markets (Single Unit)
HE1891  Entrepreneurial Growth Project (Single Unit)
XXXXXX  Approved subject from other postgraduate programs*

* These include subjects approved by the MEI course director. These may be selected from appropriate levels of other AGSE programs, for example, subjects from the MBA program. Appropriate levels of other postgraduate programs at Swinburne may also be selected.
Entry requirements

An appropriate degree or diploma from a recognised tertiary institution (or approved equivalent) with four years full-time work experience in new business creation.

A limited number of places are reserved for applicants who do not hold an appropriate qualification but who have significant relevant work experience (normally five years or more) and a level of responsibility in industry or business. In some cases, additional preliminary study may be required. Continuation in the program is determined by academic results.

All graduate entry candidates must have at least four years of approved full-time work experience after completing a Bachelor degree. This program is not appropriate for applicants without work experience.

Students whose first language is not English will need to provide evidence of advanced proficiency in written and spoken English by: academic International English Language Testing System (IELTS) Band 6.5 with no single band less than 6.0. Applicants with lower scores may undertake additional English studies (ELICOS) at Swinburne University in order to meet the entry requirements.

Application procedure

Application forms are available from the Australian Graduate School of Entrepreneurship (AGSE) or can be downloaded from the AGSE website at: www.swin.edu.au/agse under “Admissions”.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information

Contact the Australian Graduate School of Entrepreneurship (AGSE)

Telephone +61 3 9214 8512 or +61 3 9214 5249

Email: agse@swin.edu.au

Website: www.swin.edu.au/agse

EXECUTIVE ADMINISTRATION

0046BEAA Graduate Certificate in Business (Executive Administration)

This Graduate Certificate has been developed for:

- Secretaries and administrators who already possess executive administration skills, but have no formal qualification recognising their skills to this level.
- Secretaries and administrators who wish to broaden the skills they have already gained in an undergraduate program.
- Secretaries, receptionists and/or administrators who would like to significantly increase their skills and qualifications in order to apply for a promotion to a position of executive secretary/assistant or personal assistant.

Campus

Prahran.

Professional recognition

Graduates may be eligible for membership of the Institute of Professional Secretaries and Administrators.

Course duration

Twelve to eighteen months part-time. This course is offered fortnightly on a Saturday from 9.30 to 4.30.

Structure

The course consists of three compulsory subjects and one elective. All four subjects must be satisfactorily completed to gain the Graduate Certificate. The electives have been selected from other Swinburne Graduate Certificate courses to provide students with a pathway option for further study.

Course subjects

Compulsory Subjects

Executive Administration

Fundamentals of Management Processes

Information Technology

Electives (choose one)

- Communications and Electronic Culture
- Employee Relations
- Marketing
- Global Trading
- eBusiness and Communication
- Project
- The Business Environment
- Managing the Transition to eBusiness
- Business Information Systems and Technology for Managers
- Designing Multimedia Presentations for Business

Entry requirements

A diploma, advanced diploma or degree from a recognised tertiary institution, or equivalent, or be of mature age with relevant work experience and demonstrate an ability to meet course demands.

Application procedure

Applicants should contact the School of Business and eBusiness to obtain an application form on (03) 9214 5329.

Further information

Contact the School of Business and eBusiness on (03) 9214 5329

Email: tafbus@groupwise.swin.edu.au

Website: www.tafswin.edu.au/buscom

FOOD, WINE AND TOURISM MARKETING

0046TD002 Graduate Certificate in Business (Food, Wine and Tourism Marketing)

This course aims to provide students with the knowledge and understanding to apply marketing and management principles to the food, wine and tourism marketing industry within Australia and internationally. Graduates will have the knowledge which will enable them to be responsible for the management of marketing, management concepts and practices, developing, implementing and maintaining strategic competitive advantage. Such knowledge will be able to be applied to a variety of contexts within the food, wine and tourism marketing industry.

Campus

Lilydale (only)

Career opportunities

Employment in the food, wine and tourism marketing industry; one of the fastest growing industries in Australia.

Course duration

One year part-time.

Course subjects

Marketing
- Business Start-Up and Development
- Management Principles and Practices
- Global Marketing

Entry requirements

A degree or diploma in any discipline from a recognised tertiary institution with three years relevant experience in a managerial or similar position, or five years relevant experience in a managerial or similar position without a degree or diploma.

Application procedure

Applicants should contact the School of Business and eBusiness to obtain an application form on (03) 9214 5329.
Further information
Contact the School of Business and pCommerce on (03) 9214 5329
Email: tafebus@groupwise.swin.edu.au
Website: www.terle.swin.edu.au/buscom

HUMAN RESOURCE MANAGEMENT

5801BA Graduate Certificate of Business (Human Resource Management)
A181 Graduate Diploma of Business (Human Resource Management)
A196 Master of Business (Human Resource Management)

The Master of Business (Human Resource Management) program seeks to provide for the ongoing development of HR practitioners in the areas of organisation behaviour, business strategy and entrepreneurial thinking. Given the current context in which business enterprises (SMEs, multinationals, public, private, local and global organisations) operate, all need strategically astute, business outcome focussed, innovative and entrepreneurial HR practitioners who can demonstrate business acumen and deliver outcomes.

The Master of Business (Human Resource Management) forms the final stage in a three stage nested suite of programs consisting of:
- Graduate Certificate of Business (Human Resource Management)
- Graduate Diploma of Business (Human Resource Management)
- Master of Business (Human Resource Management)

The Graduate Certificate is designed to provide entry level HRM studies for HR practitioners who have not undertaken any formal studies, and managers with an appropriate level of business experience, with a view to assisting them to develop their careers in business. It will provide course participants with knowledge competencies and skills in fundamental HRM functions and activities. Students may exit at this point and apply for the Graduate Certificate.

The Graduate Diploma builds on the knowledge and skills gained in the Graduate Certificate and develops high level HR managerial skills. It focuses on the role of HR as part of business strategy.

The Master of Business (Human Resource Management) provides an unique opportunity for students to gain further current, specialised HRM and business knowledge.

Aims & Objectives
At the completion of the course, graduates can expect to have developed advanced skills and knowledge in analysis, strategy, entrepreneurial thinking, and organisational behaviour.

Campus
Hawthorn

Career opportunities
This course provides an avenue for graduates to gain theoretical and practical skills in, and knowledge of, human resource management and business practices. As many course participants may already be established in a business career, the key vocational outcomes will arise from better job performance, new opportunities opening up to graduates and enhancement of the HRM profession in general.

Professional recognition
This program has been accredited by the Australian Human Resources Institute.

Course duration
Graduate Certificate: one semester full-time, one year part-time
Graduate Diploma: one year full-time or two years part-time.
Masters: one and a half years full-time or three years part-time.

Structure
As a nested program, applicants may enter the Master program at Stage 1 (Graduate Certificate level) and progress through to Stage 2 (Graduate Diploma level) and Stage 3 (Masters level). However, progress from Stage 2 to 3 will be dependent on the achievement of a credit average or better across both Stages 1 and 2 of the program.

Full-time students take four subjects per semester. Part-time students normally undertake two subjects per semester.

Course subjects

Stage 1 (Graduate Certificate)
OH200 Recruitment and Selection
OH300 Human Development
HRM001 Performance & Reward Management
HRM002 Employee Relations

Stage 2 (Graduate Diploma)
HBH620 HR Manager as Internal Consultant
HBH622 Managing People across Cultures
HBH624 HRM and Business Systems
HBH625 HRM, Marketing and Business Research

Stage 3 (Master)
HBH620 Strategic HRM in the Business Context
HBH621 Organisational Context and Dynamics
ETH, HBH622 Strategic Workplace Research Proposal
and
HBH626 Strategic Workplace Research Project or
HBH623 Business Transformation and the Entrepreneurial HR Manager and
HBH625 Knowledge Management

Entry requirements
A degree or diploma from a recognised tertiary institution and at least three years relevant work experience. Applicants who do not hold an appropriate qualification but who have considerable relevant experience (at least five years) and an appropriate level of responsibility in industry may be admitted to the Graduate Certificate level.

International applicants will be required to have an IELTS score of 6.5 or higher with no bands less than 6.0.

Application procedure
Application forms are available from the School of Business or can be downloaded from our website at: www.swin.edu.au/hq/postgrad
International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information
Contact the School of Business on +61 3 9214 5046 or the Program Manager, Richard Ballantyne on +61 3 9214 8490
Fax: +61 3 998192117
Email: busheh@swin.edu.au

MARKETING

A171 Graduate Certificate of Business (Marketing)
A186 Graduate Diploma of Business (Marketing)
A195 Master of Business (Marketing)

Marketing has become one of the most significant and powerful tools in the world of business and its study is relevant to all areas of business life. A knowledge of marketing can help individuals and business organisations understand how to use
their resources to the best advantage. It can provide vital information about how best to handle the good and bad times in business life.

The Master of Business (Marketing) forms the final stage in a three stage nested suite of programs consisting of:

1. Graduate Certificate of Business (Marketing)
2. Graduate Diploma of Business (Marketing)
3. Master of Business (Marketing)

The Graduate Certificate develops the technical, practical, analytical and creative skills necessary to support a successful career in marketing. As many participants may already be established in a business career, the key vocational outcomes will be taken over one semester. Each semester is of 12 weeks duration. Students who are exempt from completing the Graduate Certificate subjects and enrol directly into the Graduate Diploma will need to complete an introductory subject, HBM520 Trends in Marketing, which will be conducted as a series of seminars. Classes will generally be held outside working hours. In the Masters component of the program students may complete a reading subject, a research methodology seminar and a dissertation of 25,000 - 30,000 words. The dissertation will be taken over two semesters. Alternatively, students can take three subjects and prepare an Integrative Project in Marketing. This will be taken over one semester.

**Course subjects**

**Year 1 (Graduate Certificate)**

- HBM420 Marketing Fundamentals and Practices
- HBM421 Market Behaviour
- HBM422 Marketing Information for Decision Making
- HBM423 Marketing Planning

**Year 2 (Graduate Diploma)**

Students who enrol directly into the Graduate Diploma without completing the Graduate Certificate must complete the following introductory subject:

- HBM520 Trends in Marketing

All students must complete:

- HBM521 Project Management

And three subjects from the following:

- HAM401 Cultural Convergence
- HAM411 Globalisation: Media and Telecommunications
- HBM522 Customer Relationship Management
- HBM523 eMarketing
- HBM524 Marketing Strategy
- HBM525 Marketing Decision Tools
- HBM526 Information Analysis
- HBM527 Marketing Process Engineering
- HBM528 Entrepreneurship and Innovation in Marketing

Students may opt to follow one of the following themes in their choice of subjects in the Graduate Diploma:

**Strategy**

- HBM522 Customer Relationship Management
- HBM523 eMarketing
- HBM524 Marketing Strategy
- HBM527 Marketing Process Engineering
- HBM528 Entrepreneurship and Innovation in Marketing

**Analysis**

- HBM522 Customer Relationship Management
- HBM524 Marketing Strategy
- HBM525 Marketing Decision Tools
- HBM526 Information Analysis
- HBM527 Marketing Process Engineering

**Globalisation and Communication**

- HML401 Cultural Convergence
- HAM411 Globalisation: Media and Telecommunications
- HBM524 Marketing Strategy
- HBM527 Marketing Process Engineering

**Year 3 (Master)**

**Alternative 1**

- HBM620 Research Methodology
- Or one of:
  - HBM525 Marketing Decision Tools
  - HBM526 Information Analysis
- And one elective chosen from other subjects in the program plus:
  - HBM622 Action Research Project

**Alternative 2**

- HBM620 Research Methodology
- Or one of:
  - HBM525 Marketing Decision Tools
  - HBM526 Information Analysis
- And two electives chosen from other subjects in the program plus:
  - HBM623 Integrative Project in Marketing.

**Entry requirements**

A degree from a recognised tertiary institution (or approved equivalent) and at least two years relevant business experience. Applicants who do not hold an appropriate qualification but who have considerable relevant business experience may be admitted to the Graduate Certificate level.

Applicants with a degree in marketing and a minimum of two years relevant business experience may be admitted to the Graduate Diploma level.

International applicants will be required to have an IELTS score of 6.5 or higher with no bands less than 6.0.

**Application procedure**

Application forms are available from the School of Business or can be downloaded from our website at www.swin.edu.au/hed/postgrad

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au
Further information
Contact the School of Business on +61 3 9214 5046 or the Program Manager, Ms Barbara Evans on +61 3 9214 8389
Fax +61 3 9819 2117
Email: busheh@swin.edu.au

QUALITY MANAGEMENT

0046QLM Graduate Certificate in Quality Management

This course enables participants to manage and control the planning, initiation, control, installation and auditing of QM programs. The course addresses the ISO 9000 in 2000 standards for quality and incorporates the criteria for the Australian Quality Awards. The program develops core leadership, teamwork and management competencies required by contemporary Quality Managers and their organisations. The course is applicable to large and small organisations in manufacturing, health, service, and semi-government. The course can also be tailored to an organisation’s specific needs for in-house training.

Aims & Objectives

To provide students with a curriculum, conditions and suitably qualified lecturers to impart the knowledge and skills that will equip them to be leading proponents of Quality Management at a senior level in any environment. In achieving this aim the credibility and reputation of Swinburne University will be further enhanced in the teachings of Quality.

Campus

Hawthorn

Career opportunities

Quality Management, Manufacturing Management, Health.

Professional recognition

Member of Australian Quality Council

Course duration

One semester full-time or one year part-time.

Course subjects

R0046QM1 Management Responsibilities
R0046QM2 Process Management
R0046QM3 Management Analysis & Improvement
R0046QM4 Resource Management

Entry requirements

A degree from a recognised tertiary organisation or Certificate IV in Quality with some practical experience in Quality Management. A Senior Quality Manager with 3-5 years’ experience in the discipline will also be accepted.

Application procedure

Applicants should contact the School of Business and eCommercia to obtain an application form on (03) 9214 5329 or (03) 9214 6710.

Further information

Contact the School of Business and eCommercia on (03) 9214 5329
Email: tafebus@groupwise.swin.edu.au
Website: www.tafe.swin.edu.au/buscom

SMALL BUSINESS MANAGEMENT

0046SBUS Graduate Certificate in Business (Small Business Management)

The course has been designed to meet the needs of small business owners, operators, and prospective business owners and business consultants, essentially to educate participants on the requirements of small business and to enhance participants’ chances of success in their chosen business field.

Campus

Hawthorn

Career opportunities

On completion of the course, students should possess an improved job and/or business performance and a greater awareness of the inherent challenges associated with being in small business.

Course duration

Two semesters part-time

Structure

The course is offered on a part-time basis over 12 months. It is expected that the course be completed in one semester of equivalent full-time study, or two semesters part-time study. Students need to attend in-class for 4 hours per week. In addition to the in-class contact hours, students are expected to spend at least two hours for each contact hour in undertaking reading, research and the completion of assignments and case studies.

The course consists of three compulsory subjects, each has a set number of modules and one elective subject. The elective can be one specifically designed for this course, or can be chosen from any subject within the existing suite of graduate certificates taught at the Swinburne’s Hawthorn campus. Assessment is based on both individual and group work. Assignments and tests concentrate on the practical application to the small business environment.

Course subjects

0046SB001 Finance for Small Business
0046SB002 Managing Your Business Efficiently
0046SB003 Business Start Up and Development
0046SB004 Information Technology

Entry requirements

A degree or diploma with at least three years work experience, or five years relevant experience and hold a responsible position in industry or business.

Application procedure

Applicants should contact the School of Business and eCommercia to obtain an application form on (03) 9214 5329 or (03) 9214 6710.

Further information

Contact the School of Business and eCommercia on (03) 9214 5329
Email: tafebus@groupwise.swin.edu.au
Website: www.tafe.swin.edu.au/buscom

STRATEGIC FORESIGHT

SF100 Graduate Certificate of Science (Strategic Foresight)
SF200 Graduate Diploma of Science (Strategic Foresight)
SF300 Master of Science (Strategic Foresight)

The Master of Science in Strategic Foresight is a nested program incorporating the Graduate Certificate and Graduate Diploma in Strategic Foresight. The program will provide a sound theoretical and practical foundation for the successful practice of strategic foresight in many fields.

The Graduate Certificate provides a grounding in foundational areas that support the foresight discipline. The main outcome is the ability to understand the nature of foresight and its successful practice in organisations.

The Graduate Diploma has been developed to provide more advanced insights into the changing nature and futures/foresight implications of the global system. Additionally, it links global foresight with organisational strategy, going beyond conventional year-to-year annual planning cycles to embrace new conceptual and operational territory.

The Masters degree will primarily appeal to those people who are already high achievers part-way through a career path and who wish to develop proactive approaches to their work, or perhaps to change direction. To these ends, the
program provides the necessary grounding in futures studies and foresight work as well as a range of applied implementation options.

Aims & Objectives
At the completion of the program, it is expected that students will have:
- Developed their skills and capacities as practitioners in the field who are committed to improving the foresight capability of organisations through understanding, developing and successfully applying coherent forward views.
- Developed higher order thinking (or meta-learning) about developing human and organisational capacities to carry out productive foresight work.
- Strengthened their ability to conceptualise the complex relations between foresight and strategy in organisations.
- Deepened their understanding, through reflective experience, of how they might manage themselves as applied foresight practitioners in the role of leaders, managers, consultants or researchers when they engage in these professional roles.
- Explored ways of working collaboratively in order to understand and contribute to personal and organisational responses to complexity, uncertainty and turbulence in the 21st Century environment.
- Become equipped to provide effective foresight capabilities of positive and continuing use to organisations.
- Become equipped to discern the many organisational opportunities that attend the complex processes of globalisation, social change and technical innovation.
- Established the foundations for study at the level of Professional Doctorate in Strategic Foresight.

Campus
Hawthorn

Career opportunities
Employment in foresight and strategy within a range of organisations.

Professional recognition
Graduates will be eligible for membership of the World Futures Studies Federation (WFSF). The Federation may also grant the status of Fellow to practitioners in the field who are advanced professional standing.

Course duration
Graduate Certificate: one year full-time.
Graduate Diploma: two years full-time.
Masters: three years full-time.

Structure
The Graduate Certificate of Science in Strategic Foresight consists of four subjects, each worth 12.5 credit points (4 subjects x 12.5 credit points/subject = 50 credit points). This represents one semester of full-time study (12 weeks x 3 hours/week x 4 subjects) or two semesters of part-time study. Some subjects may consist of a number of modules to allow simplicity and flexibility in course delivery.

The Graduate Diploma of Science in Strategic Foresight consists of the four subjects from the Graduate Certificate of Science in Strategic Foresight plus a further four subjects, making a total of eight subjects, each worth a total of 12.5 points.

The Master of Science in Strategic Foresight incorporates the Graduate Certificate and Graduate Diploma of Science in Strategic Foresight plus a further four subjects, making a total of twelve subjects, each worth 12.5 credit points. Students are required to complete subjects totalling 150 credit points (12 subjects x 12.5 credit points).

Applications for exemptions will be considered on an individual basis. However, due to the nature of the foresight discipline, applicants at all levels will be required to take all four foundational units from Stage 1, as well as relevant units from Stages 2 and 3, depending upon their previous background and intended career path.

Course subjects
Stage 1 (Graduate Certificate)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSF601</td>
<td>Introduction to the Knowledge Base of Futures Studies and Foresight</td>
</tr>
</tbody>
</table>

Stage 2 (Graduate Diploma)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HSF611</td>
<td>Implementing Foresight in Organisations</td>
</tr>
<tr>
<td>HSF621</td>
<td>Foresight Methodologies</td>
</tr>
<tr>
<td>HSF631</td>
<td>Dimensions of Global Change</td>
</tr>
</tbody>
</table>

Stage 3 (Masters)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HSF711</td>
<td>The Foresight Process</td>
</tr>
<tr>
<td>HSF721</td>
<td>Outlook for the Early 21st Century</td>
</tr>
<tr>
<td>HSF731</td>
<td>Integral Futures Frameworks</td>
</tr>
<tr>
<td>HSF741</td>
<td>Digital Continuity, Privacy, Risk - Three Dilemmas of the Online World</td>
</tr>
<tr>
<td>HSF751</td>
<td>Specialised Topic or Intervention Project 1</td>
</tr>
<tr>
<td>HSF761</td>
<td>Specialised Topic or Intervention Project 2</td>
</tr>
</tbody>
</table>

Entry requirements
A degree from a recognised tertiary institution, or approved equivalent, and appropriate advanced work experience. Candidates who do not hold a degree but have significant work experience may initially be enrolled in the Graduate Certificate level.

Application procedure
Application forms are available from the Australian Foresight Institute (AFI) or can be downloaded from the AFI website at www.swin.edu.au/afi

Further information
Contact the Australian Foresight Institute (AFI) on +61 3 9214 5981
Email: szanie@swin.edu.au
Website: www.swin.edu.au/afi

SUPPLY CHAIN MANAGEMENT

0046SUPP Graduate Certificate in Supply Chain Management

This course aims to provide participants with the complex principles and practices, knowledge and attitudes which will enable them to perform the duties of managing and guiding industry and organisations in supply chain management.

Campus
Hawthorn

Career opportunities
Purchasing, Supply, Logistics, Distribution, Warehousing.

Professional recognition
Member of the Institute of Purchasing and Material Management (IPMA)

Course duration
One semester full-time or one year part-time

Course subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>0046T0001</td>
<td>Supply Chain</td>
</tr>
<tr>
<td>0046T0002</td>
<td>Logistics</td>
</tr>
<tr>
<td>0046T0003</td>
<td>Quality and the Supply Chain</td>
</tr>
</tbody>
</table>

Plus an appropriate elective from the Graduate Certificate in Human Resource Management
Entry requirements
A degree in or diploma from a recognised tertiary institution, or 3-5 years experience in Senior Management position of Supply Chain related functions.

Application procedure
Applicants should contact the School of Business and eCommercesw@groupwise.swin.edu.au to obtain an application form on (03) 9214 5329.

Further information
Contact the School of Business and eCommercesw@groupwise.swin.edu.au on (03) 9214 5329
Email: tafebus@groupwise.swin.edu.au
Website: www.tafe.swin.edu.au/buscom

HIGHER DEGREES BY RESEARCH

A003 Doctor of Philosophy (Business)

Graduates who hold a Bachelor degree and who have shown a high standard of academic achievement in that course may be admitted to candidature for the degree of Doctor of Philosophy. The higher degree programs currently available require the presentation of a major thesis based on original research, investigation or development work, carried out either within Swinburne or externally, providing that adequate facilities and supervision can be arranged. External work can be carried out in an approved industrial, governmental, educational or research organisation.

The Statute for the degree of Doctor of Philosophy sets out the regulations governing this qualification. See website: www.swin.edu.au/sgrs/regs/phdpolicy.htm

Aims & Objectives
The PhD degree provides training and education with the objective of producing graduates with the capacity to conduct research independently at a high level of originality and quality. The student ought to be capable, by the end of his/her candidature, of conceiving, designing and carrying to completion a research program without supervision. The PhD candidate should uncover new knowledge either by the discovery of facts, the formulation of theories or the innovative re-interpretation of known data and established ideas.

Campus
Hawthorn

Course duration
The expected normal duration of candidature is 3.5 years full-time or 6 years part-time.

Structure
Candidates normally undertake research at Swinburne for the appropriate duration and, especially part-time candidates and those based in industry, must be able to demonstrate to the satisfaction of the Committee that they are able to meet with their supervisors in person to discuss progress at least once every calendar month or have made satisfactory arrangements for discussion to occur by other means e.g. via email.

All candidates are expected to demonstrate satisfactory progress on an annual basis. To be assessed for a Doctor of Philosophy, candidates must present a major thesis based on original research, investigation or development work carried out under Swinburne staff supervision either at Swinburne or externally.

Entry requirements
Applicants should have a Bachelor’s degree with honours (1st or 2nd class) or the equivalent in a discipline appropriate to the proposed area of study. The level of academic achievement in prior studies should be of a very high standard. Other relevant activities, including work experience, will be taken into account in assessing applications.

Application procedure
Applicants should initially consult with Professor Miles G Nicholls, Director of Research, School of Business, telephone +61 3 9214 8605 to discuss their proposed research direction and to determine that appropriate resources and facilities are available for the supervision of the proposed research.

Application forms can then be obtained by contacting the Swinburne Graduate Research School (SGRS) or downloaded from the SGRS website at: www.swin.edu.au/research/f-pgrad.htm and can be submitted at any time of the year.

Further information
Contact Professor Miles Nicholls on +61 3 9214 8605, or the School of Business on +61 3 9214 5046
Fax: 61 398192117
Email: busheh@swin.edu.au

Y001 Doctor of Philosophy (Entrepreneurship and Innovation)

The Australian Graduate School of Entrepreneurship (AGSE) has a strong commitment to research in entrepreneurship, management and associated disciplines. There are currently many PhD theses in progress including research into the commercialisation of Australian research, government policy on the development and performance of small manufacturing businesses, factors influencing strategic alliances in high-tech industries and evaluating the value of training investment. There are also a small number of students undertaking Masters degrees by research.

Campus
Hawthorn

Application procedure
Application forms are available from the Australian Graduate School of Entrepreneurship (AGSE) or can be downloaded from the AGSE website at: www.swin.edu.au/agse

International students should contact the International Student Unit on +61 3 9214 8847 or Email: int-admissions@swin.edu.au

Further information
Contact the Australian Graduate School of Entrepreneurship (AGSE)
Telephone: +61 3 9214 8479
Email: agse@swin.edu.au
Website: www.swin.edu.au/agse

A007 Doctorate of Business Administration (DBA)

Business executives are required to operate in a turbulent environment where competition is global, change is the norm, and where radical discontinuities present ever changing decision making frames. Excellence in entrepreneurship, strategic management and organisational change management are essential to develop effective corporate executives and hence organisational viability.

The Swinburne DBA is a practical doctoral level research degree that extends the professional skills and knowledge acquired in the MBA. It aims to develop high calibre executives with managerial and applied research skills by employing three critical integrating lenses on organisations:

- Entrepreneurship and Innovation
- Strategy and Foresight
- Organisation and Leadership

Aims & Objectives
The DBA aims to:

- Bring theory and practice to bear on decision making in complex organisational environments in order to help these institutions adapt to changing circumstances and to lay the foundations for long term organisational survival.
- Encourage innovative thinking within the spirit of a risk taking enterprise
- Maintain a strong service orientation to all facets of the business.
- Maintain cultures which value cross disciplinary approaches and the management of diversity.
- Provide a rigorous basis for applied workplace research.
- Develop teamwork and effective communication skills.
- Recognise the influence of technology in bringing about organisational change.

**Campus**
Hawthorn

**Course duration**
Two and a half years full-time or five years part-time

**Structure**
The DBA is essentially a research degree with 30% of assessment being devoted to coursework outcomes and 70% devoted to research. Consideration will be given to granting appropriate candidates ‘advanced standing’ in the coursework components. It must be noted that the Research Methodology seminar is a forum for the exploration of issues associated with methods etc. and is therefore a vital aspect of work for the thesis.

**Course subjects**

**Full-time Program**

1st Half Year

- HDBA800 Organization and Leadership
- HDBA801 Entrepreneurship and Innovation
- HDBA802 Strategy and Foresight
- HDBA803 Research Methodology

2nd Half Year

- HDBA804A Thesis

3rd Half Year

- HDBA804B Thesis

4th Half Year

- HDBA804B Thesis

5th Half Year

- HDBA804B Thesis

* Candidates may complete within four half years depending on their progress with the thesis.

**Part-time Program**

1st Half Year

- HDBA800 Organization and Leadership
- HDBA803 Research Methodology

2nd Half Year

- HDBA801 Entrepreneurship and Innovation
- HDBA802 Strategy and Foresight

3rd Half Year

- HDBA804A Thesis

4th Half Year

- HDBA804B Thesis

5th Half Year

- HDBA804B Thesis

6th Half Year

- HDBA804B Thesis

7th Half Year

- HDBA804B Thesis

8th Half Year

- HDBA804B Thesis

9th Half Year

- HDBA804B Thesis

10th Half Year

- HDBA804B Thesis

** Candidates may complete within eight half years depending on their progress with the thesis.

**Entry requirements**
The formal admission requirements for the DBA Program are:

- A Master of Business Administration degree at a credit level from Swinburne University of Technology or another recognised university, or
- Another approved coursework Masters degree at a credit level in a management-related area relevant to the management of organisations, or
- A Masters degree at a credit level in a field other than business, plus a Bridging Program,
- A research-based Master degree in Business Administration or related area,
- Qualifications accepted as equivalent by the DBA Director, and
- Full-time and part-time candidates need at least five years of full-time, post-university managerial work experience in a field related to the candidate’s thesis topics.
- Admission will also be subject to interview.

All programs at Swinburne are taught in English. Applicants whose first language is not English and who have not completed a degree in the English medium, must produce evidence of advanced proficiency in written and spoken English by attaining: an academic IELTS Band 7.0 with no single band less than 6.5. Applicants with lower scores may undertake additional English studies [ELICOS] at Swinburne University in order to meet the entry requirements. Where applicants do not have the minimum entry requirements in terms of Masters level subjects to undertake the DBA, but hold a Masters degree or equivalent, a Bridging Program is available. Bridging studies will be negotiated with each applicant in accordance with their qualifications.

**Application procedure**
Application forms are available from the Australian Graduate School of Entrepreneurship (AGSE) or can be downloaded from the AGSE website: www.swin.edu.au/ags under “Admissions”.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: int-admissions@swin.edu.au

**Further information**
Contact the Australian Graduate School of Entrepreneurship (AGSE)
Telephone +61 3 9214 8512/5241
Email: agse@swin.edu.au
Website: www.swin.edu.au/ags

**A188 Graduate Diploma of Business (Research Methodology)**
The Graduate Diploma of Business in Research Methodology is designed as a bridging course for students with an undergraduate qualification, but without substantial research experience, who wish to enter either a Masters by Research or Doctoral program. Participants will be exposed to academic research and presentation techniques which will assist them in gaining entry into a Masters by Research or Doctoral program.

**Aims & Objectives**
The Graduate Diploma of Business in Research Methodology aims to give students research skills necessary to enter a Masters by Research or Doctorate program.

**Campus**
Hawthorn

**Course duration**
One year full-time or equivalent part-time

**Course subjects**

- HBG500 Business Research Methodology
- HBG511 Current Issues in Business: Advanced Reading Unit
- HBG510 Business Research Project

**Entry requirements**
A degree of an appropriate level from a recognised tertiary institution or approved equivalent.
Application procedure
Application forms are available from the School of Business.

Further information
Contact the School of Business on +61 3 9214 5046
Fax: +61 3 9819 2117
Email: busshq@swin.edu.au

A193 Master of Business (by research)
The School of Business offers the degree of Master (by research and thesis) on a full-time or part-time basis. The Statute for the degree of Master (by research and thesis) sets out the regulations governing this qualification. See website: www.swin.edu.au/research/welcome.htm under Research Policy.

Aims & Objectives
The Masters by Research degree generally has the objective of training students in research methodology and techniques and in their critical evaluation, appropriate to their field of study, and in the application of such methodology by conducting a specified program of research under appropriate supervision. In addition, this degree requires training in analysing the literature and debate in the substantive area of the thesis topic at an advanced level.

Campus
Hawthorn

Course duration
Two years full-time or four years part-time.

Structure
The candidate's research program must be such as to ensure the likelihood of completion of a thesis within the specified time. Candidates normally undertake the research at Swinburne for the appropriate duration and (especially part-time candidates and those based in industry) must be able to demonstrate to the satisfaction of the Joint Research Committee and the Higher Degrees Committee that they are able to meet with their supervisors in person to discuss progress at least once every calendar month or have made satisfactory arrangements for discussion to occur by other means (e.g. email).

All candidates are expected to demonstrate satisfactory progress on an annual basis. To be assessed for a Masters by Research, candidates must present a major thesis based on original research, investigation or development work carried out under Swinburne staff supervision either at Swinburne or externally.

Entry requirements
Applicants should have at least a Bachelor's degree or the equivalent in a discipline appropriate to the proposed area of study. The level of academic achievement in prior studies must be of a high standard. Other relevant activities including work experience will be taken into account in assessing applications.

Application procedure
Applicants should initially consult with Professor Miles G. Nicholls, Director of Research, School of Business on +61 3 9214 8605 to discuss their proposed research direction and to determine that appropriate resources and facilities are available for the supervision of the proposed research.

Application forms can then be obtained by contacting the Swinburne Graduate Research School (SGRS) or downloaded from the SGRS website at: www.swin.edu.au/research/tpgrad.htm and can be submitted at any time of the year.

Further information
Contact Professor Miles Nicholls on +61 3 9214 8605 or the School of Business on +61 3 9214 5046
Fax: +61 3 9819 2117
Email: busshq@swin.edu.au

COMPUTING AND INFORMATION TECHNOLOGY

INFORMATION SYSTEMS

A097 Master of Information Systems
Information systems is concerned with the application of information technology to support organisations in the conduct of their business. The Master of Information Systems program is designed to examine both the organisational issues and the techniques and technology required for the analysis, design and implementation of business solutions, with an emphasis on electronic commerce.

Aims & Objectives
The course aims to meet the needs of applicants who wish to enhance their career opportunities through developing expertise in the current approaches to the management of information systems and technologies.

Campus
Hawthorn

Course duration
Three years part-time.

Structure
A variety of entry points is available depending on prior academic qualifications. Students who do not hold a degree must undertake the full program. Students who have a degree will be eligible for exemption from the two elective subjects in Stage 1. Students who have a degree or graduate diploma in Information Systems may be eligible to commence the course at Stage 2.

In Stage 1, students undertake two core subjects and select two elective subjects from those offered in the Graduate Diploma of Information Technology courses: Information Systems Development, Information Systems Applications or Internet Software Development.

Four program choices are available in Stage 3. Most students undertake either Option 1 or Option 2. Options 2, 3 and 4 require explicit approval by the program manager.

Electives are usually chosen from Graduate Diploma and Masters level subjects offered by the School of Information Technology. However, students need to ensure that the electives they choose are appropriate for the Stage in question and so the advice of the Program Manager must be sought.

Students must meet the prerequisite requirements of the electives they select. Availability of all electives is subject to timetabling and resource constraints.

A student who withdraws from the program prior to completion will be eligible for the award of Graduate Certificate in Information Systems, provided at least four subjects have been passed.

A student who withdraws from the program prior to completion will be eligible for the award of Graduate Diploma in Information Systems, provided at least 100 credit points have been gained, including no more than 25 credit points of exemptions.

Course subjects
Stage 1
HIT7036 Information Technology Strategies
HIT8003 Business Analysis
Plus two elective subjects drawn from those offered in the Graduate Diploma of Information Technology.

Stage 2
HBH604 Management, Organisations and People
HIT8002 Information Systems Management
HIT8025 Information Technology Effectiveness
HIT8060 Systems Project Management

Stage 3
Choose one option.
Option 1
HBH707 Strategic Change
Computing and Information Technology

1071 Graduate Certificate in Information Technology

This course is aimed primarily at professionals who have substantial relevant experience but who lack a formal qualification in the area of information technology. It is also relevant to IT professionals who qualified several years ago and are now seeking to move into more contemporary areas of software development.

Campus
Hawthorn

Professional recognition
This course is accredited at the professional level towards membership with the Australian Computer Society.

Course duration
Six months full-time or one year part-time.

Structure
Students complete four subjects from one of the Graduate Diploma in Information Technology courses: Information Systems Development, Information Systems Applications or Internet Software Development. Selection of subjects will vary slightly between full-time and part-time students.

Course subjects
Choose one of the following Graduate Diploma courses and complete four subjects:

Information Systems Development
HIT5012 Information Systems and Programming
HIT5091 Web Development
HIT6016 Database 1
HIT6049 Systems Analysis and Design

Electronic Commerce
HIT6092 Advanced Web Technologies

Core subjects
HIT5012 Information Systems and Programming
HIT5091 Web Development
HIT6016 Database 1
HIT7084 E-Commerce: A Business Perspective
HIT7085 E-Commerce Systems Infrastructure

Plus either the:

Information Technology Option
HIT6110 Programming in VB/.NET
HIT7110 Component-Based Development, .NET
HIT7017 Database 2
HIT7085 E-Commerce Systems Infrastructure

Information Systems Option
HIT6049 Systems Analysis and Design
HIT7036 Information Technology Strategies

Entry requirements
Entry is available to applicants without a degree but who have substantial relevant experience in the IT industry. Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma.

Application procedure
Application forms are available from the School of Information Technology or at: www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

Further information
Contact the School of Information Technology on +61 3 9214 5505
Email: itinfo@swin.edu.au
Website: www.it.swin.edu.au/

1085 Graduate Diploma in Information Technology (Electronic Commerce Systems)

The Graduate Diploma in Electronic Commerce Systems is suitable for people with skills in management, marketing, social policy and public administration who wish to acquire specialist expertise in Electronic Commerce Systems. The program focuses on the practices and uses of Information Technologies and Information Systems Applications.

Entry requirements
Entry is available to applicants without a degree but who have substantial relevant experience in the IT industry. Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma.

Application procedure
Application forms are available from the School of Information Technology or at: www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

Further information
Contact the School of Information Technology on +61 3 9214 5505
Email: itinfo@swin.edu.au
Website: www.it.swin.edu.au/
Systems principles in the design, development and deployment of Electronic Commerce systems.
The program is also suitable to those who have some existing knowledge and skills in Information Systems who wish to acquire specialisation in their application to Electronic Commerce Systems, especially Web-based systems. These students may be able to gain exemptions from some subjects in the program.

Campus
Hawthorn

Professional recognition
Application has been made for the recognition of the course at Professional Level (the highest level) with the Australian Computer Society.

Course duration
One year full-time or two years part-time, commencing in March or July.

Structure
The Graduate Diploma comprises of 100 Credit Points (CP), equivalent to one year of full-time study, and involves completing eight subjects.

Swinburne offers four Graduate Diploma courses in Information Technology: Electronic Commerce Systems (described here), Information Systems Applications, Information Systems Development, and Internet Software Development. A change of course may be possible after commencement of studies, but this may result in the student taking more than eight subjects, and longer than the minimum time to complete the program.

The Graduate Diploma in Electronic Commerce Systems consists of six core subjects and two elective subjects. Through a choice of elective subjects, students may focus upon either the Information Technology or the Information Systems aspects of Electronic Commerce Systems.

The program naturally extends into the Master of Information Technology degree, where there is an opportunity to specialise in advanced information systems modelling and development, as well as areas such as software engineering, human-computer interaction and distributed systems. Several subjects in the MIT degree have particular relevance to the development of advanced Electronic Commerce Systems. Students completing the Graduate Diploma with a grade average of credit may automatically proceed to the Masters.

Course subjects
Core Subjects
HIT7002  IT Grad Dip Transition
HIT5012  Information Systems and Programming
HIT5001  Web Development
HIT6016  Database 1
HIT7084  Electronic Commerce: A Business Perspective
HIT7095  Electronic Commerce Systems Infrastructure
HIT7086  Electronic Commerce Project

Plus either the:

Information Technology Option
HIT6110  Programming in VB.NET
HIT6032  Advanced Web Technologies

OR

Information Systems Option
HIT6049  Systems Analysis and Design
HIT7036  Information Technology Strategies

Entry requirements
Entry is generally available to those who have a degree (or equivalent) in a non-IT discipline. No prior knowledge of Information Technology is assumed, but students without prior knowledge may be required to undertake additional introductory studies in the month prior to the commencement.

Admission may also be granted to students with a degree in an IT discipline, if that degree was obtained several years ago and/or that degree has little overlap with the curriculum of the Graduate Diploma in Electronic Commerce Systems. Typically such students may be able to claim exemptions from some subjects. Of the eight subjects in the program, students may be granted up to two exemptions on the basis of previous studies or prior knowledge.

Application procedure
Application forms are available from the School of Information Technology or at:

Further information
Contact the School of Information Technology on +(61) 3 9214 5505
Email: itinfo@swin.edu.au
Website: www.it.swin.edu.au/

1083  Graduate Diploma in Information Technology
(Information Systems Applications)

The Information Systems Applications course is designed to provide specific skills in areas such as spreadsheets, databases and programming. While these skills are valuable in solving business problems at a personal level, the course also examines organisational issues relating to the impact, effective use and management of IT.

Aims & Objectives
The course aims to provide a solid understanding of information technology in business in order to enable and enhance its use at both the personal and enterprise levels.

Campus
Hawthorn

Career opportunities
Graduates will possess the knowledge and skills necessary for entry level positions in the IT industry.

Professional recognition
Application has been made for recognition of this course, at Professional Level (the highest level), with the Australian Computer Society.

Course duration
One year full-time or two years part-time.

Structure
The Graduate Diploma consists of 100 Credit Points (CP), equivalent to one year of full-time study, and involves completing eight subjects. Entry is possible in both Semester 1 (March) and Semester 2 (July).

Swinburne offers four Graduate Diploma courses in Information Technology: Information Systems Applications (described here), Information Systems Development, Internet Software Development, and Electronic Commerce Systems. A change of course may be possible after commencement of studies, but this may result in the student taking more than eight subjects, and longer than the minimum time to complete the program.

Course subjects
HIT7002  IT Grad Dip Transition
HIT5012  Information Systems and Programming
HIT6006  Business Computing
HIT6016  Database 1
HIT6049  Systems Analysis and Design
HIT7007  Business Computing Applications
HIT7036  Information Technology Strategies
HIT7084  E-Commerce: A Business Perspective
HIT7085  E-Commerce Systems Infrastructure

Entry requirements
A degree in a non-IT discipline from a recognised tertiary institution or approved equivalent. As no prior knowledge of IT is assumed, applicants with a degree in IT will be considered only if that degree was obtained several years ago and/or that degree has little overlap with the curriculum of the chosen stream.
Applicants without a degree, who have substantial relevant business experience, may be accepted into the Graduate Certificate in Information Technology. Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma.

**Application procedure**
Application forms are available from the School of Information Technology or at: www.swin.edu.au/hed/postgrad/postgrad.application.2003.pdf

**Further information**
Contact the School of Information Technology on +61 3 9214 5505
Email: itinfo@swin.edu.au
Website: www.it.swin.edu.au/

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**1082 Graduate Diploma in Information Technology (Information Systems Development)**

This course is more technically oriented than the Information Systems Development applications course and is intended to provide a broad foundation of knowledge and skills in Information Systems Development. Students will study the Visual Basic programming language, and in the database area, students will gain valuable experience with the Oracle Database Management System.

**Aims & Objectives**
The course aims to provide the skills and knowledge to allow graduates to begin or progress in careers such as software development or systems analysis.

**Campus**
Hawthorn

**Career opportunities**
Graduates are viewed by employers as having the knowledge and skills necessary for entry-level positions in the IT industry.

**Professional recognition**
This course has been accredited at professional level towards membership with the Australian Computer Society.

**Course duration**
One year full-time or two years part-time

**Structure**
The Graduate Diploma consists of 100 Credit Points (CP), equivalent to one year of full-time study, and involves completing eight subjects. Entry is possible in both Semester 1 (late February) and Semester 2 (mid July).

Swinburne offers four Graduate Diploma courses in Information Technology: Information Systems Development (described here), Information Systems Applications, Internet Software Development, and Electronic Commerce Systems. A change of course may be possible after commencement of studies, but this may result in the student taking more than eight subjects, and longer than the minimum time to complete the program.

The Information Systems Development program naturally extends into Swinburne’s Master of Information Technology, where there is an opportunity to specialise in advanced information systems modelling and development, as well as in areas such as software engineering, human-computer interaction and distributed systems. Students completing the Graduate Diploma with a grade average of credit may automatically proceed to the Masters.

**Course subjects**
- HIT0002 IT Grad Dip Transition
- HIT5012 Information Systems and Programming
- HIT5091 Web Development
- HIT6016 Database 1
- HIT6049 Systems Analysis and Design
- HIT6110 Programming in VB.NET
- HIT7085 E-Commerce Systems Infrastructure
- HIT7017 Database 2
- HIT7110 Component Based Development.NET

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**Entry requirements**
A degree in a non-IT discipline from a recognised tertiary institution or approved equivalent. As no prior knowledge of IT is assumed, applicants with a degree in IT will be considered only if that degree was obtained several years ago, and/or that degree has little overlap with the curriculum of the chosen stream.

Applicants without a degree, who have substantial relevant business experience, may be accepted into the Graduate Certificate in Information Technology. Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma.

**Application procedure**
Application forms are available from the School of Information Technology or at: www.swin.edu.au/hed/postgrad/postgrad.application.2003.pdf

**Further information**
Contact the School of Information Technology on +61 3 9214 5505
Email: itinfo@swin.edu.au
Website: www.it.swin.edu.au/

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**1084 Graduate Diploma in Information Technology (Internet Software Development)**

The Graduate Diploma in Information Technology (Internet Software Development) provides a practical education in software development emphasising the object-oriented approach and the development of web-based systems. The program is aimed at professionals who will use the knowledge to complement their previous qualifications and at people who are seeking a change in career direction. It is relevant to IT professionals who may have qualified several years ago, who are now seeking to move into more contemporary areas of software development.

**Campus**
Hawthorn, Online (part-time only).

**Career opportunities**
Graduates of the program will be equipped with the knowledge and skills to make them valuable members or leaders of teams developing software.

**Professional recognition**
This course is accredited at professional level towards membership with the Australian Computer Society.

**Course duration**
One year full-time or two years part-time, commencing in March or July.

**Structure**
The Graduate Diploma consists of 100 Credit Points (CP), equivalent to one year of full-time study, and involves completing eight subjects. From Semester 2, 2002, a new flexible approach to the delivery of our Graduate Diploma in IT (Internet Software Development) is being introduced for part-time students. Students enrolled in this program will have access to substantial online course material in addition to optional on-campus activities. This new approach to postgraduate education combines the best features of distance education with those of traditional on-campus course delivery, giving students more flexibility in deciding when, where and how they study.

Swinburne offers four Graduate Diploma courses in Information Technology: Internet Software Development (described here), Information Systems Applications, Information Systems Development, and Electronic Commerce Systems. A change of course may be possible after commencement of studies, but this may result in the student taking more than eight subjects, and longer than the minimum time to complete the program.

The program naturally extends into Swinburne’s Master of Information Technology degree, where there is an opportunity to specialise in software engineering, as well as in areas such as computer networks, human-computer interaction, distributed systems and information systems modelling and development. Students completing the Graduate Diploma with a grade average of Credit may automatically proceed to the Masters.
Course subjects

Full-time Program

Semester 1

HIT6051 Software Development 1 (Java)
HIT6091 Web Development
HIT6016 Database 1
HIT6024 Introduction to Human-Computer Interaction
HIT7002 IT Grad Dip Transition

Semester 2

HIT6020 Data Communications
HIT6031 Software Engineering
HIT6052 Software Development 2G (Java)
HIT7092 Advanced Web Technologies

Entry requirements

A degree in a non-IT discipline from a recognised tertiary institution or approved equivalent. No prior knowledge of IT is assumed, but students without prior knowledge may be required to undertake additional introductory studies in the month prior to commencement. Admission may be granted to students with a degree in IT, if that degree was obtained several years ago, and/or that degree has little overlap with the curriculum of the Graduate Diploma.

Applicants without a degree, who have substantial relevant business experience, may be accepted into the Graduate Certificate in Information Technology. Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma.

Application procedure

Application forms are available from the School of Information Technology or at: www.swin.edu.au/hec/postgrad/postgrad_application_2003.pdf

Further information

Contact the School of Information Technology on +61 3 9214 5505
Email: itinfo@swin.edu.au
Website: www.it.swin.edu.au/

1091 Master of Information Technology

The Master of Information Technology (MIT) provides an opportunity for participants to undertake an in-depth study of some today’s most exciting IT developments. The MIT is designed for those with a bachelor’s degree or a graduate diploma in an information technology discipline (computer science, information systems, computer systems engineering). The program specifically aims to suit the needs of recent graduates who wish to pursue advanced studies and also experienced IT professionals, whose previous qualification was obtained some time ago, and who are seeking to extend or update their knowledge.

Students with a degree in a non-computing discipline wishing to undertake the MIT program must generally first enrol in one of the four Graduate Diploma in Information Technology courses offered at Swinburne: Information Systems Development, Information Systems Applications, Internet Software Development, and Electronic Commerce Systems.

Aims & Objectives

The MIT aims to enhance vocational skills and conceptual knowledge, and to provide the theoretical underpinning for these skills and knowledge.

Campus

Hawthorn

Course duration

One year full-time or two years part-time. For students commencing at the Graduate Diploma stage, the course is two years full-time or four years part-time.

Structure

The MIT is part of a nested suite of programs, which includes a Graduate Certificate and a Graduate Diploma, with a number of entry points depending on previous academic studies and work experience.

The Master degree consists of 100 Credit Points (CP), equivalent to one year of full-time study. The program is available in both full-time and part-time (6.30pm to 9.30pm) modes. Entry is possible in both Semester 1 (February/March) and Semester 2 (July), but the full range of options is currently only available to students who enter in Semester 1. Since this course is continually under review, in order to keep it in touch with state-of-the-art technology, changes in course structure and subjects occur from time to time. The most common program consists of eight coursework subjects. Development and modelling projects and research subjects are also offered.

Postgraduate subjects are categorised as Level 1, 2 or 3. Subjects are generally worth 12.5 credit points. For the MIT, students must complete at least 75 credit points of Level 3 subjects, and up to 25 credit points of Level 2 subjects (in areas not covered by their previous IT studies) for a total of 100 credit points. Level 2 subjects may be included only with the explicit permission of the Program Manager. Some Level 2 subjects are only offered during the day. Note: some Level 2 subjects may be necessary in order to fulfil the prerequisite knowledge of Level 3 subjects.

Specialisation programs

It is possible to select a broad program comprising of 100 credit points of subjects providing prerequisite requirements are satisfied. Alternatively, students may choose to follow one of the prescribed specialisation programs. Current specialisation programs are the MIT (Internet Computing), MIT (Software Engineering) and the MIT (Information Systems). In order to qualify for a specialisation, students must complete at least 75 Credit Points from a set of core subjects. Up to 25 credit points of other MIT subjects may also be chosen.

The specialisation programs are:

Information Systems

The Information Systems specialisation offers a course of study focusing on the knowledge and skills needed by information systems analysts, designers and developers. It includes advanced topics in system and information modelling, database design and component technology. The Unified Modelling Language (UML) is emphasised. Students use industrial strength products such as Oracle and Microsoft .NET development tools.

Core subjects

HIT8012 Current Issues in Information Systems*
HIT8018 Database 3
HIT8023 Human-Computer Interaction
HIT8030 Information Systems Modelling Project (25 CP)
HIT8032 Information Systems Management*
HIT8033 Information Systems Development Project (25 CP)
HIT8035 IT Effectiveness*
HIT8060 Systems Project Management
HIT8098 E-Commerce Management*
HIT8096 .Net Architecture
HIT8121 Internet Security
HIT8126 Advanced Data Modelling
HIT8127 Component Modelling and Design
HIT8142 Object-Oriented Modelling
* At least four years relevant industry experience is a prerequisite for these subjects.

Internet Computing

The Internet Computing specialisation offers a practical course of study focusing on the skills and concepts required to develop Internet-based systems. It also includes advanced topics in enterprise systems development. XML and web technologies. Students are advised to include both subjects in one of the pairs (HIT8087 and HIT8119) and (HIT8197 and HIT8099).

Core subjects

HIT8041 Advanced Web Development
HIT8087 Advanced Java
HIT8093 XML Technologies
HIT8096 .Net Architecture
HIT8099 Enterprise .NET
HIT8119 Enterprise Java
The Software Engineering specialisation offers a course of study focusing on the development of practical skills and theoretical knowledge in Software Engineering. It focuses on methodologies, tools, techniques and management principles necessary to support the effective and efficient development of high quality software.

**Core subjects**
- HIT8023 Human-Computer Interaction
- HIT8045 Personal Software Process
- HIT8055 Software Maintenance/Project
- HIT8057 Software Testing and Reliability
- HIT8060 Systems Project Management
- HIT8066 Software Tools
- HIT8098 Agile Development/Project
- HIT8156 Software Process Improvement
- HIT8157 Large Scale System Design
- HIT8159 Software Quality Management (must be included)
- HIT8189 Usability Engineering

**Course subjects**

### Level 3 Subjects
Students must complete at least 75 credit points of Level 3 subjects. Subjects are generally worth 12.5 credit points (CP) unless otherwise indicated.

**Semester 1 (February – June)**
- HIT8018 Database 3
- HIT8023 Human-Computer Interaction
- HIT8030 Information Systems Modelling Project (25 CP)
- HIT8032 Information Systems Management*  
- HIT8063 UNIX Systems Programming
- HIT8098 E-Commerce Management
- HIT8060 Systems Project Management
- HIT8050 Evolutionary and Neural Computing
- HIT8087 Advanced Java
- HIT8093 XML Technologies
- HIT8097 Programming for .Net
- HIT8119 Enterprise Java
- HIT8127 Component Modelling and Design
- HIT8142 Object-Oriented Modelling
- HIT8157 Large Scale System Design
- HIT8159 Software Quality Management

**Semester 2 (July – November)**
- HIT8012 Current Issues in Information Systems*  
- HIT8018 Database 3
- HIT8033 Information Systems Development/Project (25 CP)
- HIT8035 IT Effectiveness*  
- HIT8041 Advanced Web Development
- HIT8045 Personal Software Process
- HIT8055 Software Maintenance/Project
- HIT8057 Software Testing and Reliability
- HIT8066 Software Tools
- HIT8089 XML Technologies
- HIT8096 .Net Architecture
- HIT8097 Programming for .Net
- HIT8098 Agile Development/Project
- HIT8099 Enterprise .NET
- HIT8119 Enterprise Java
- HIT8121 Internet Security
- HIT8126 Advanced Data Modelling
- HIT8140 Multimedia for the WWW
- HIT8156 Software Process Improvement
- HIT8164 Internet Networking Infrastructure
- HIT8165 Windows Programming.NET
- HIT8189 Usability Engineering

* Requires at least 4 years industry experience.

**Research Subjects**
- HIT8067 Minor Thesis (50 CP)
- HIT8068 Research Seminar (12.5 CP)
- HIT8069 Research Paper (12.5 CP)
- HIT8070 Research Report (25 CP)

Students wishing to undertake research subjects must present evidence of their capacity for research. Students who are approved to study research subjects may choose no more than one of HIT8067 Minor Thesis, HIT8068 Research Paper, HIT8070 Research Report.

**Level 2 Subjects**
Students must complete up to 25 credit points of Level 2 subjects.

Note: Some Level 2 subjects may be necessary in order to fulfill the prerequisite knowledge of Level 3 subjects.

- HIT6092 Advanced Web Technologies
- HIT6110 Programming in VB.NET
- HIT7017 Database 2
- HIT7037 Programming in Java
- HIT7072 C+ for Programmers

**Entry requirements**
A degree or graduate diploma in an information technology discipline from a recognised tertiary institution or approved equivalent.

Students with a Credit Grade Point Average degree in another discipline generally undertake the Graduate Diploma in Information Technology prior to commencing the Masters program. Students may be eligible for up to 25 credit points of exemptions in the Graduate Diploma, based on prior study of IT.

Students with a degree containing minor studies in IT (consisting of the equivalent of at least 3 undergraduate subjects) may be granted admission to the MIT, but generally they will be required to enrol in a preliminary program consisting of an appropriate number of Graduate Diploma subjects, designed to bring their IT knowledge up to the level of someone with a Graduate Diploma.

Students undertaking all or some of the Graduate Diploma in Information Technology will normally require a Credit Grade Point Average before proceeding to the Master of Information Technology.

**Application procedure**
Application forms are available from the School of Information Technology or at: www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

**Further information**
Contact the School of Information Technology on +61 3 9214 5505
Email: itinfo@swin.edu.au
The Master of Design program provides advanced study suitable for designers who wish to achieve higher specialisation in the disciplines of Communication Design, Furniture Design, Industrial Design, Interior Design, or Multimedia Communication Design. It aims to prepare participants to meet the increasing demands of the design industry. In keeping with international practice in both postgraduate design education and the design industry, the program structure is project-based and will be conducted under the guidance of a design mentor. This enables knowledge/skills to be acquired and integrated within practical design projects.

The program also recognises that over recent decades, the practice of design and its social and economic uses have become increasingly complex, interrelated and subject to change. While reflecting the design interests of the National School of Design, the program is structured to adapt to the changing nature of design and to accommodate the specific needs of different groups of students. For example, Information Design is currently an important field of interest and development across design, as is the application of design to digital contexts. Similarly, the needs of an ageing population and critical issues of sustainability pose emerging challenges for design. A feature of this program is the Introductory Program, an intensive sequence of seminars and workshops in which key skills, knowledge, and ideas are introduced.

The Introductory Program comprises three major streams of information. One will focus on design methods. The second will explore a contained set of themes and questions of high relevance to an aspect or aspects of contemporary design practice, including the expression of design in an advanced technological context. The presentation of this core content will be notable for drawing on the expertise of leading designers, and other experts in relevant fields. The third stream will emphasise design management and entrepreneurship. In developing their projects students will be challenged to consider how contemporary design reflects and responds to new technological developments, shifting demographics and the changing nature of everyday life, and how it might predict changing needs and uses in design and be realised in actual terms.

The nature of the Introductory Program recognises the need for flexible modes of delivery. It can be offered as an intensive unit, delivered over a number of weeks, or as a sequence of daytime, evening or weekend seminars.

Course duration
Two years (4 semesters) full-time or four years (8 semesters) part-time.

Structure
Although the course may be taken in a limited attendance mode, all students will be required to attend the National School of Design for the Introductory Program at the beginning of the course. For students developing their own design projects, attendance would usually also be required for the first four weeks of Design Project 1 and the Major Design Project to establish the parameters of the project with their mentor.

The course operates to a student workload model of 50 credit points per semester of full-time study. It is structured into three supervised Design Projects, as follows:

- **Project 1** is undertaken in Semester 1, and will incorporate knowledge and skills relevant to the specific discipline area (50 credit points).
- **Project 2** is undertaken in Semester 2, and will incorporate further knowledge and skills relevant to the specific discipline area (50 credit points).
- **Finally**, the major Design Project in Semesters 3 and 4 will combine at an advanced level the knowledge and skills previously acquired (100 credit points).

Accompanying each Design Project will be a Project Document of appropriate scale and content, demonstrating the parameters of the project’s investigation.

Each Design Project will be assessed at the end of the relevant semester in an exhibition format or via other appropriate media. The Project Document will be assessed as an integral part of the Design Project. It will be a permanent visual and written record that describes intent as appropriate to the project. The Project Document may encompass the design methods and intellectual processes that have been followed in realising the design. It must include reasoned representation of the rationale for key design decisions, and document the contextual frameworks in which those decisions were made, whether these be technological, commercial, aesthetic, theoretical, cultural or social. It should include a list of references.

The course permits flexible entry and exit. Enrolment in the course can be on a semester by semester basis, and in either a full-time or part-time mode. As such, a student may complete Semester 1, the first Design Project, and return at a later date to undertake Semester 2. Qualification exit points are available, as follows:

**Graduate Diploma in Design**
Completion of Semesters 1 and 2: Design Projects 1 & 2 and Project Documents of appropriate scale and content (100 credit points).

**Master of Design**
Completion of Semester 4: Design Projects 1, 2 & 3 and a Project Document of appropriate scale and content (200 credit points).

**Course subjects**

**Year 1 (Graduate Diploma)**

- **Semester 1**
  - **HDM501** Design Project One (50 credit points)

- **Semester 2**
  - **HDM502** Design Project Two (50 credit points)

**OR:**
- Completion of the Graduate Diploma in Design Studies

**Year 2 (Master)**

- **Seminars 3 & 4**
  - **HDM601** Major Design Project (100 credit points)

**Entry requirements**
A degree or diploma in design from a recognised tertiary institution plus substantial experience in the design industry or design education (normally five years).

Students admitted to the course who have completed an Honours year in a design discipline will be eligible for exemption of the first two semesters of the program.

**Application procedure**
Direct application to the National School of Design International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

**Further information**
Contact the National School of Design on +61 3 9214 6755
Email: NSDInquiry@swin.edu.au
Website: www.swin.edu.au/design

**DESIGN STUDIES**

**DMDS31 Graduate Diploma of Design**

**Design Studies**

This program provides designers with an opportunity to gain new skills and knowledge in design, and allows designers and design educators to enhance their knowledge of their subject area. It also offers an alternative coursework Graduate Diploma stream leading to a Master of Design program in either Communication Design, Furniture Design, Industrial Design, Interior Design, or Multimedia Communication Design.
Aims & Objectives
The program aims to provide relevant extension work in the areas of design practice and technology to individuals who work in design related fields or have existing design qualifications. It has been developed to enable them to upgrade their professional skills and design awareness. Candidates would be expected to demonstrate an independent approach to developing knowledge or understanding in design through their design research/thesis project.

Campus
Prahran

Professional recognition
This course has been developed in consultation with the Graphic Communication Teachers Association and the Technology Education Teachers Association of Victoria (TETAV).

Course duration
One year full-time or two years part-time

Structure
The Graduate Diploma of Design in Design Studies course will operate under a student workload model based on 100 credit points for a full-time academic year. To qualify for the award the student must complete, or have been granted exemption for, the subjects listed below. Students choose between subjects focussing on Design Practice and Technology or Design Practice and Research.

Course subjects

Semester 1
Design Studio 1
HDDS511A Design Communication Studio 7
HDDS511B Group Multimedia Project 7
HDDS511C Studio Practice 7
HDDS511D Studio Practice 7
Choose Design Technology 1, Design Technology 2, or Design Research 1

Design Technology 1
One of the following:
HDDS512A Multimedia Design
HDDS512B Industrial Design
HDDS512C Interior Design

Design Technology 2
One of the following:
HDDS513A Multimedia Design
HDDS513B Industrial Design
HDDS513C Interior Design

Design Research 1
One of the following:
HDDS514A CD Hons Research 7
HDDS514B ID Hons Research 7
OR both of the following 12.5 credit point subjects
HDDS514D Multimedia Design Technology 7
HDDS514E Individual Design Technology 7

Semester 2
Design Studio 2
HDDS521A Design Communication Studio 8
HDDS521B Group Multimedia Project 8
HDDS521C Studio Practice 8
HDDS521D Studio Practice 8
Choose Design Technology 3, Design Technology 4, or Design Research 2

Design Technology 3
One of the following:
HDDS522A Multimedia Design
HDDS522B Industrial Design

Course subjects

Semester 1
Design Studio 1
HDDS511A Design Communication Studio 7
HDDS511B Group Multimedia Project 7
HDDS511C Studio Practice 7
HDDS511D Studio Practice 7
Choose Design Technology 1, Design Technology 2, or Design Research 1

Design Technology 1
One of the following:
HDDS512A Multimedia Design
HDDS512B Industrial Design
HDDS512C Interior Design

Design Technology 2
One of the following:
HDDS513A Multimedia Design
HDDS513B Industrial Design
HDDS513C Interior Design

Design Research 1
One of the following:
HDDS514A CD Hons Research 7
HDDS514B ID Hons Research 7
OR both of the following 12.5 credit point subjects
HDDS514D Multimedia Design Technology 7
HDDS514E Individual Design Technology 7

Semester 2
Design Studio 2
HDDS521A Design Communication Studio 8
HDDS521B Group Multimedia Project 8
HDDS521C Studio Practice 8
HDDS521D Studio Practice 8
Choose Design Technology 3, Design Technology 4, or Design Research 2

Design Technology 3
One of the following:
HDDS522A Multimedia Design
HDDS522B Industrial Design

Entry requirements
A degree or diploma in art or design from a recognised tertiary institution or substantial experience in the design industry (normally five years).

Application procedure
Direct Application to National School of Design
International students should contact the International Student Unit on +61 3 9214 8647 or via Email: int-admissions@swin.edu.au

Further information
Contact the National School of Design on +61 3 9214 6755
Email: NSDenquiry@swin.edu.au
Website: www.swin.edu.au/design

MULTIMEDIA DESIGN

DMMD32 Graduate Certificate of Design (Multimedia Design)
DMMD31 Graduate Diploma of Design (Multimedia Design)
DMMD30 Master of Design (Multimedia Design)

The National School of Design, with international and nationally known programs in design education combined with media studies from the School of Social and Behavioural Sciences, offers this specialised postgraduate program in multimedia design. The course aims to produce postgraduates with a specialist understanding of communication design, media studies and programming as applied to the World Wide Web and computer interactive mediums. They will acquire specialist skills for communication design in typography, animation, 3D modelling, audio and video as applied to electronic mediums.

Campus
Prahran

Career opportunities
Graduates will possess broad based knowledge and specialist skills that will enable them to work at many levels in design consultancies, information technology companies, media and entertainment studios, advertising agencies and government instrumentalities.

Professional recognition
Graduates are eligible for membership of the Australian Graphic Design Association (AGDA), membership of multimedia Industry Network (mmlN) and associate membership of the Design Institute of Australia (DIA).

Course duration
Masters: two years full-time or four years part-time.

Structure
The Master of Design (Multimedia Design) course will operate under a student workload model based on 100 credit points for a full-time academic year. To
qualify for the award the student must complete, or have been granted exemption for, the subjects listed below. The program has skills acquisition as a component of the course delivered by intensive teaching and an individual minor project. The major component of the program is based on a collaborative group project undertaken by small teams of students. This mirrors the methodology of professional practice. There is a written component at each level of the course consisting of a dissertation of approximately 2,500 to 3,500 words.

Students may elect to withdraw from the program (depending on the number of units completed) with the Graduate Certificate or Graduate Diploma in Multimedia Design.

In specific instances students may wish to take a subject offered in another school of the University in place of a subject offered in this course. In order for this to occur a student must liaise with the coordinator of the course in question and seek approval of the Head of Multimedia Design.

Course subjects

Graduate Certificate

Semester 1

HMMDT501 Multimedia Design Technology 1
HMMDP501 Individual Multimedia Design Project 1
HVMMP501 Group Multimedia Design Project 1 (25 credit points)

Graduate Diploma

Semester 2

HMMDT602 Multimedia Design Technology 2
HMMDP602 Individual Multimedia Design Project 2
HVMMP602 Group Multimedia Design Project 2 (25 credit points)

Master of Design (includes Semesters 1 & 2)

Semester 3

HMMDT501 Multimedia Design Technology 3
HMMDP501 Individual Multimedia Design Project 3
HVMMP501 Group Multimedia Design Project 3 (25 credit points)

Semester 4

HMMDT602 Multimedia Design Technology 4
HMMDP602 Individual Multimedia Design Project 4
HVMMP602 Group Multimedia Design Project 4 (25 credit points)

Entry requirements

Satisfactory completion of an appropriate degree or honours degree and/or relevant industrial experience. Or, have such other qualifications or experience, which in the opinion of the Selection Committee, are of a satisfactory standard and are suitable preparation for entry to this program at an appropriate level.

Application procedure

Direct application to the Administration Manager, National School of Design. International students should contact the International Student Unit on t61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information

Contact the National School of Design on t61 3 9214 6755
Email: NSDesignquiry@swin.edu.au
Website: www.swin.edu.au/design

HIGHER DEGREES BY RESEARCH

DD90 Doctor of Philosophy (Design)

Current research projects include:

- The cognitive structure of colour space.
- The design of an instrument for use in Anterior Cruciate Ligament surgery.
- A cognitive simulation model of colour design strategies.
- Lithographic transfer as a catalyst for invention.
- Public perceptions of designers and the design professions.
- An internet-based investigation of public perceptions of the design professions.
- Indirect transfer: catalyst to chemical printing.

Campus

Prahran

Course duration

Generally, three years full-time or six years part-time.

Entry requirements

Admission to the Doctor of Philosophy is not restricted to those with a design background. Applicants from any academic area are welcome. In general, applicants for the Doctor of Philosophy should have:

(a) a Masters degree, or
(b) an Honours degree with First or Upper Second Class Honours, or
(c) other qualifications and professional experience deemed equivalent.

Full details of admission requirements are available from the Office of Research and Graduate Studies website: www.swin.edu.au/research

Further information

Informal enquiries should be directed to:

Prof. A. Whitfield
National School of Design
Swinburne University of Technology
Building A, Cnr High and Thomas Streets
Prahran VIC 3181

MD90 Master of Design (by research)

The Master of Design by research involves the investigation of a design-related topic using appropriate research methods. It can be pursued on a full-time or part-time basis.

Supervision is available in the areas of:

- Design History and Critical Theory,
- Design Psychology (particularly in Aesthetics and Colour Cognition).

Emerging areas of interest within the School are in:

- Public Perceptions of Design.
- 20th Century Australian Design.
- User Friendly Information Design.

The scope of research is best indicated by examples of projects currently being supervised within the School:

- Evaluating Corporate Identity Programs.
- Feng Shui: An Application to Architectural Design.

Campus

Prahran

Course duration

Generally, two years full-time or four years part-time

Structure

The Master of Design by research involves the investigation of a design-related topic using research methods. For examination the candidate may produce either:

(a) a thesis only, or
(b) a thesis and a product or artefact that embodies the result of their research.

Entry requirements

Admission to the Master of Design is not restricted to those with a design background. Applicants from any academic area are welcome. In general, applicants for the Master of Design should have either:

(a) a Bachelors Degree...
with First or Second Class Honours(b) other qualifications and professional experience deemed equivalent.

Application procedure
Direct application to the Administration Manager, National School of Design.

Further information
Contact the National School of Design on +61 3 9214 6755
Email: NSDenquiry@swin.edu.au
Website: www.swin.edu.au/design

DPD90  Professional Doctorate in Design
The Professional Doctorate in Design is an innovative program of advanced study designed to meet the professional needs of experienced designers in industry and education. Its focus is on the new emergent electronic media and their creative application within the fields of design. These have wide application across the entire range of design professions, and are equally relevant to professionals working in, for example, graphic and multimedia design, product and industrial design, and interior and exhibition design. The course is therefore applicable to all design disciplines. Its project-based structure allows the designer to pursue a research goal appropriate to his/her discipline, while using digital technology to better achieve that goal. As a design doctorate, the emphasis is firmly on design, with the new digital technology acting as both a facilitator and a channel for professional development.

Campus
Prahran

Course duration
Three years full-time.

Structure
The course is structured into three supervised Design Research Projects. Each Design Research Project will investigate a design topic relevant to the student's own discipline, while incorporating the new digital technology. The workload model is as follows:
- Design Research Project One is undertaken in Semester One and during the first half of Semester Two (50 credit points);
- Design Research Project Two is undertaken in the second half of Semester Two and during Semester Three (50 credit points);
- Finally, the Major Design Research Project is undertaken in Semesters Four, Five and Six. This will combine at an advanced level the knowledge/skills previously acquired. Accompanying the Major Design Research Project will be a Project Report of approximately 20,000 words that describes the parameters of the project investigation (100 credit points).

Course subjects
Semesters 1, 2 & 3
HPDD701  Design Research Project 1
HPDD702  Design Research Project 2
Semesters 4, 5 & 6
HPDD703  Major Design Research Project

Entry requirements
A masters degree, from a recognised tertiary institution, plus a minimum of five years professional experience. Applicants with other qualifications and relevant experience may also be considered.

Application procedure
Direct Application to the School Administration Manager, National School of Design.

Further information
Contact the National School of Design on +61 3 9214 6755
Email: NSDenquiry@swin.edu.au
Website: www.swin.edu.au/design

ENGINEERING AND TECHNOLOGY

AIR TRANSPORTATION MANAGMENT

MF94  Graduate Certificate of Technology (Air Transportation Management)
MF95  Graduate Diploma of Technology (Air Transportation Management)
MF96  Master of Technology (Air Transportation Management)

This program is designed primarily to meet the needs of personnel currently involved in the aviation industry who wish to upgrade their skills at tertiary level in the field of management in Air Transportation. In addition, the program is designed to have considerable application for personnel in related technologically based service and business industries.

The program will provide students with the necessary skills in the field of air transportation management within the aviation industry. It will provide insight into the multiple facets of management and its application in air transportation. The program has been developed in partnership with the aviation industry. One of the unique aspects is that authors and lecturers from a number of fields contribute to this teaching. This provides a range of diverse views, ideas and practical examples and broadens the students' understanding of air transportation management.

Aims & Objectives
The aim of the program is to develop within an operational environment:
- an advanced understanding of the principles and complexities of the air transportation industry;
- the skills necessary to implement Air Transportation Management within a company environment;
- proactive skills to achieve and sustain competitive advantage in a rapidly changing global industry.

Campus
Distance Education

Course duration
Graduate Certificate: two semesters part-time or one semester full-time.
Graduate Diploma: four semesters part-time or two semesters full-time.
Masters: six semesters part-time or three semesters full-time.

Structure
The Graduate Certificate in Air Transportation Management comprises four subjects normally taken over one year of part-time study. After the successful completion of four subjects it is possible to exit the program with a Graduate Certificate or progress to the Graduate Diploma.

The Graduate Diploma in Air Transportation Management comprises eight subjects normally taken over two years of part-time study. Although the programs are designed to be completed at the normal rate of two subjects per semester, it is possible to vary this to suit student's individual needs.

Entry requirements
A masters degree in Air Transportation (mandatory)

Research Design & Methodology must have been undertaken at the Graduate Diploma level to be able to progress to the Master of Technology.

Graduate Certificate program
MF951  Air Transportation (mandatory)
Graduate Diploma program

HMF611 Air Transportation (mandatory)

Plus seven of the following subjects:

HMF612 Airport Development and Management
HMF613 Airlines Operations Management
HMF614 Aircraft Performance and Facilitation
HMF615 Aircraft Selection-Acquisition & Contracts
HMF616 Stress and Fatigue Management in Aviation
HMF617 Emergency Planning & Management, Part 1
HMF618 Emergency Planning & Management, Part 2
HMF621 Airline Alliances & Contemporary Issues

Masters program

Stage 1
Students must complete HMF611 and HMF605 and select six other subjects from Stages 1 & 2 before progressing to Stage 3.

HMF611 Air Transportation (mandatory)
HMF612 Airport Development and Management
HMF613 Airlines Operations Management
HMF614 Aircraft Performance and Facilitation

Stage 2

HMF615 Aircraft Selection-Acquisition & Contracts
HMF616 Stress and Fatigue Management in Aviation
HMF617 Emergency Planning & Management - Part 1
HMF618 Emergency Planning & Management - Part 2
HMF619 Aviation Security, Risk Management, Insurance
HMF620 Air Transportation Financial Management
HMF621 Airline Alliances and Related Topics
HMF622 Aviation Law and Air Transport Issues
HMF623 Financial Management
HMF624 Introductory Human Factors
HMF625 Organisational Change in Aviation
HMF605 Research Design & Methodology*

Stage 3

HMF626 Advanced Research Project

Entry requirements

Applicants for this program should fit one or more of the following categories:

- People working in the aviation industry in the following roles with at least two years operational experience: Air Traffic Controllers, Licensed Aircraft Maintenance Engineers (LAMEs), Company managers and Supervisors, Military personnel and Pilots. Pilots holding a full ATPL licence.
- People who do not fit the above categories but who meet all of the following criteria, may be eligible: currently working in the aviation industry, demonstrable academic capacity to deal with the study required, would benefit from participation in the program.

People in the last category will be enrolled in the Graduate Certificate (only) in the first instance, but may continue onto the Graduate Diploma if their progress is satisfactory. This category also allows those with overseas qualifications, with no exact Australian equivalents, to be admitted to the program.

Application procedure

Application forms are available from the Distance Education Office [Aviation Programs] by telephoning +613 9214 5066 or on our website at: www.swin.edu.au/ohd/postgrad/postgrad_application_2003.pdf

Further information

Contact the School of Engineering & Science on +61 3 9214 8372
Fax: +61 3 9214 8264
Email: engsci@swin.edu.au
Website: www.swin.edu.au/aviation/

AVIATION

M094 Graduate Certificate of Technology (Aviation Human Factors)
M095 Graduate Diploma of Technology (Aviation Human Factors)
M096 Master of Technology (Aviation Human Factors)

This program is designed primarily to meet the needs of personnel currently involved in the aviation industry who wish to upgrade their skills at tertiary level in the specialist area of human factors. In addition, the course is designed to have considerable application for personnel in other technologically based industries including rail, shipping, heavy industry, the chemical industry and energy production.

The program provides students with the skills necessary to design and implement human factors programs within the aviation industry. It also provides insight into management of the air transportation industry and a deep understanding of the multiple facets of human factors training and its application to the aviation industry.

One of the unique aspects of the Masters degree is that lecturers from a number of universities contribute to this teaching. This provides a range of diverse views and ideas and broadens the students’ understanding of the human factors domain.

Aims & Objectives

The aims of the program are to develop within an operational environment:

- an advanced understanding of the principles of human factors;
- the skills necessary to implement human factors training programs;
- the skills necessary to conceptualise and undertake applied human factors research.

Campus

Distance Education.

Course duration

Graduate Certificate: one year part-time or one semester full-time.
Graduate Diploma: two years part-time or one year full-time.
Masters: one and a half years full-time or three years part-time.

Structure

This program is available by Distance Education only and is delivered by technologically advanced means. Each subject is accessible via the internet, or by other multi-media modes to suit student needs.
Whatever primary means is used to participate in the program, there will be a requirement for attendance at a mandatory two day residential seminar/workshop for each subject. For those undertaking the standard program, these will be combined each semester in a four day seminar covering both subjects. The residential seminars will be presented at the Hawthorn campus of Swinburne University of Technology. Students enrolled in the International program are not required to attend the seminars.

Although the programs are designed to be completed at the normal rate of two subjects per semester, it is possible to vary this to suit students' individual needs. Part-time progress through the program is defined as doubling the time required to complete the Masters degree by undertaking only one subject per semester. Accelerated progress is also possible for those students who can devote full-time to the program thereby completing the Masters degree in three semesters or by utilising the summer break it is possible to complete the Master of Technology in Aviation Human Factors in about sixteen months.

After completion of four subjects it is possible to exit the program with a Graduate Certificate; or a Graduate Diploma after the completion of eight subjects. Entry into the Masters degree will be by invitation for those students who perform particularly well in the Graduate Diploma.

Course subjects

Stage 1 (Graduate Certificate)

Semester 1

HMF600 Introductory Human Factors
HMF601 Air Transportation Management and Facilitation

Semester 2

HMF602 Crew Resource Management and Leadership
HMF603 Organisational Change in Aviation

Stage 2 (Graduate Diploma)

Semester 1

HMF604 Advanced Human Factors
HMF605 Research Design and Methodology

Semester 2

HMF606 Human Factors in Specialist Operations
HMF607 Research Project

Stage 3 (Masters)

Semesters 1 & 2

HMF608 Advanced Research Project

Entry requirements

Applicants for this program should fit one or more of the following categories:

- University graduates in any of the following: Aviation, Business, Economics, Engineering, Law, Management, Marketing, Psychology, Science or Social Science
- People working in the aviation industry in the following roles (providing they have at least two years’ operational experience): Air Traffic Controllers, Licensed Aircraft Maintenance Engineers (LAMEs), Company managers and supervisors, Military personnel and Pilots. Pilots holding a full ATPL licence.
- People who do not fit the above categories but who meet all of the following criteria, may be eligible: currently working in the aviation industry, demonstrable academic capacity to deal with the study required, would benefit from participation in the program.

People in the last category will be enrolled in the Graduate Certificate (only) in the first instance, but may continue onto the Graduate Diploma if their progress is satisfactory. This category also allows those with overseas qualifications with no exact Australian equivalents, to be admitted to the program.

Application procedure

Application forms are available from the Distance Education Office (Aviation Programs) by telephoning +61 3 9214 5066 or on our website at: www.swin.edu.au/hod/postgrad/postgrad_application_2003.pdf

Further information

Contact the School of Engineering & Science on +61 3 9214 8372
Fax: +61 3 9214 8264
Email: engsci@swin.edu.au
Website: www.swin.edu.au/aviation/

CAD/CAM/CIM

M084 Graduate Certificate of Engineering (CAD/CAM)
M085 Graduate Diploma of Engineering (Computer Integrated Manufacture)
M086 Master of Engineering (Computer Integrated Manufacture)

Computer Aided Design (CAD) is defined as a system that uses a computer to assist in the creation or modification of a design. Computer Aided Manufacturing (CAM) is defined as the effective utilisation of computer technology in the management, control and operation of a manufacturing facility through direct or indirect interface with the physical and human resources of the company.

Computer Integrated Manufacturing (CIM) is an important and effective means of achieving productivity improvements which must be seriously considered by manufacturing companies who wish to become and remain competitive. CIM should also be encouraged in the national interest so that the adoption of appropriate technology can improve our ability to compete on international markets and against cheaper, high quality imports in the domestic market.

It is intended that graduates will have a comprehensive understanding of the practical applications of CIM systems, and a demonstrated ability to carry out detailed investigation and research at a high academic level into specific aspects of CIM.

Aims & Objectives

This program aims to prepare engineering and physical science graduates for future roles in the development and application of CIM, which combines the associated technologies of CAM and CAD.

Campus

Hawthorn

Career opportunities

Graduates may find employment with manufacturing companies who are intending to adopt computer integrated manufacturing, as project engineers or advanced program managers. It is also envisaged that some graduates may seek employment related to the marketing of hardware/software systems or as consultants.

Course duration

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

Structure

The Master of Engineering (Computer Integrated Manufacture) incorporates the Graduate Certificate in Engineering (CAD/CAM) and the Graduate Diploma in Engineering (Computer Integrated Manufacture). Students must achieve 100 credit points with an average of not less than 65% at Graduate Diploma level to continue through to the Masters program. Alternatively, students may be permitted to complete at Graduate Certificate or Graduate Diploma level. Each subject is delivered on a modular basis, normally outside business hours, over a two week period. Assessment for each subject normally occurs three weeks after delivery.

Course subjects

Semester 1 (Graduate Certificate)

HMM682 Computer Aided Design
HMM683 Enterprise Management Systems
HMM684 Advanced Robotics
HMM685 Numerical Control Systems
Further information
Contact the Industrial Research Institute Swinburne (IRIS) on:
Tel: +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hsmirn@swin.edu.au
Website: www.swin.edu.au/iris

CONSTRUCTION MANAGEMENT

C065 Graduate Certificate of Engineering (Construction Management) - Performance Building Surveying

Buildings in Australia are designed to meet the requirements of the Building Code of Australia. Recently, a new building code has introduced ‘performance based’ provisions which allow departure from the traditional method of design and construction. These new provisions or regulations ensure that the objectives of the requirements are met using a variety of methods. In order to facilitate the use of this new code, building surveyors need to be educated in the use of performance based regulations.

This program of advanced study includes the development of analytical and mathematical skills to interpret performance methods, an understanding of the process of assessing performance methods and an appreciation of new techniques in fire technology and engineering.

Aims & Objectives
The course aims to develop the following:
- An understanding of fire science and technology fundamentals
- The technical skills required in the application and use of codes of practice dealing with materials and fire.
- The ability to apply rational system design for buildings.

Campus
Hawthorn

Course duration
Two semesters part-time.

Structure
The Graduate Certificate comprises four subjects each of 12.5 credit points, provided in a part-time evening mode. Each subject involves four hours of lectures and tutorials.

Course subjects
Semester 1
HES6810 Statutory Control A
HES6840 Fire Technology A

Semester 2
HES6815 Statutory Control B
HES6845 Fire Technology B

Entry requirements
A degree or diploma in Building Surveying or equivalent, or relevant industrial experience. Applicants with other qualifications and experience, which in the opinion of the Divisional Board, are of a satisfactory standard, will also qualify for entry.

Application procedure
Applications forms are available from the School of Engineering and Science or on our website at www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

Further information
Contact the School of Engineering &Science on +61 3 9214 8372
Fax: +61 3 9214 8264
Email: engsci@swin.edu.au

C082 Graduate Diploma of Engineering (Construction Management)

C092 Master of Engineering (Construction Management)

The construction industry has always required efficient technical and financial project administrators, and this need is even greater in today’s financial climate. Projects must run efficiently on all fronts, and managers must be able to plan, execute and supervise jobs with professional skill in areas where each new technological advance creates a need for new techniques, methods and equipment.

The main aim of this course is to prepare graduates of proven academic ability for future roles in managing people, equipment, materials, technological processes and funds in the construction, building and maintenance of buildings and assets in the civil infrastructure. The achievement of this aim is facilitated by providing a structured study of advanced management and engineering techniques in the fields of construction, building and maintenance.

There are topics within the subjects of the course which will relate to industrial conditions in SE. Asia and the Pacific. The purpose of these topics is to draw the attention of Australian students to offshore challenges and opportunities. These topics are also used to help foreign students relate the class material to their own background and to contribute their own experience to the course.

Aims & Objectives
The course aims to develop the following:
- Skill at allocation of materials resources, and in organisation and leadership of people.
- Knowledge of modern building, construction and maintenance technology.
- An understanding of the financial considerations and the risks involved in project funding.
- An awareness of cultural impacts on construction sites, particularly on offshore projects.
- An ability to plan construction, building and maintenance operations and to forecast resource needs.
- An appreciation of contractual obligations and risks and legal requirements.
- An understanding of the requirements of Quality Management.
- An understanding of the Construction and Building Industry as a service industry.
- An awareness of environmental impacts of construction projects.
- An understanding of management of property.
- An ability to communicate effectively within a project setting.

Campus
Hawthorn

Career opportunities
The course assists the professional in moving from the area of technical practice to the technical management stream.

Professional recognition
Associate membership of the Australian Institute of Building.
The course provides participants with a regional, national, and international perspective on disaster management, based on the Australian/New Zealand Standard on Risk management (AS/NZ4360:1999).

**Campus**

Distance Education.

**Career opportunities**

Graduates possessing skills in the interpretation and application of the Risk Management Standard will be widely sought by local, national and international government and non-government organisations, emergency services, volunteer and aid agencies.

**Duration**

The Graduate Certificate can be completed in 12 months and the Graduate Diploma in 24 months. Students can work at their own pace, however they are encouraged to spend no more than 6 months completing a module.

**Structure**

To obtain the Graduate Certificate, students must complete two core risk modules and two elective modules. They may then elect to obtain the Graduate Diploma by completing the remaining core module and a further three electives.

**Course subjects**

**Core Subjects**

- Perception and Identification of Risk
- Risk Determination and Treatment
- Disaster Management Research Project (Graduate Diploma only)

**Electives**

- Operations and Information Systems
- Natural Hazards
- Human and Industrial Hazards
- Emergency Logistics and Evaluation
- Emergency Management and Disaster Recovery
- Disaster Preparedness and Decision-making

**Entry requirements**

A degree or advanced diploma from a recognised tertiary institution (or approved equivalent). Applicants with relevant work experience are also eligible to apply, particularly where relevant professional practice has been undertaken. In these cases it is expected that the intending participants will be able to:

- Work independently
- Consult with others
- Manage time and commitments
- Research material from primary and secondary sources
- Present written information appropriate for postgraduate assessment.

**Application procedure**

Contact the International Disaster Management Centre (IDMC).

**Further information**

Contact the International Disaster Management Centre (IDMC) on:

Tel: +61 3 9214 5146
Fax: +61 3 9815 1318
Email: gkavanagh@swin.edu.au
Website: www.tafe.swin.edu.au/indsci/dm/centre.html
INDUSTRIAL ENGINEERING

M073  Graduate Certificate of Engineering (Industrial Engineering)
M074  Graduate Diploma of Engineering (Industrial Engineering)
M075  Master of Engineering (Industrial Engineering)

The Industrial Engineering (IE) program has been designed in response to the need for an engineering approach to solving problems relating to the interplay of people, productivity, information, and management. IE relates to the total picture of productivity improvement through the analysis, design, installation, control, evaluation and improvement of integrated systems of people, materials information, equipment and processes.

The first semester (Graduate Certificate) focuses on the fundamental concepts of Industrial Engineering, which provide students with important early insights into the IE profession. This is supplemented with subjects which emphasize the detailed aspects of total quality and procedures for productivity improvement, and the modern ways of managing manufacturing systems including JIT technique for decision making. The technology management topics discuss issues including financial analysis, project management and traditional and modern production methods.

Second semester subjects (Graduate Diploma) focus on the more advanced and technical topics of Industrial Engineering. Simulation and expert systems provide solid techniques for analysis of complicated systems which may arise as a result of design and modelling. Design of physical facilities enables students to effectively utilize space and facilities. This and other situations are assisted by mathematical modelling techniques and statistical analysis tools.

Students wishing to complete a Masters degree in Industrial Engineering can either take a Minor Thesis, which is research information on a practical or theoretical topic in Industrial Engineering, or they can take two additional subjects and a project.

Aims & Objectives

The program aims to meet the market demand for expertise which is not provided by any other engineering discipline, including problem solving, decision making, productivity and quality improvements, modelling, simulation, reliability analysis, operations management, methods engineering, quick response, and business re-engineering.

Campus

Hawthorn

Career opportunities

Graduates have the ability to apply their knowledge in any organisation including banks, hospitals, insurance and airline companies, governmental offices, transportation industry, telecommunication and all types of manufacturing companies.

Course duration

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

Structure

The Master of Engineering (Industrial Engineering) incorporates the Graduate Certificate and Graduate Diploma of Engineering (Industrial Engineering). Students must achieve 100 credit points with an average of not less than 65% at Graduate Diploma level to continue through to the Masters program. Alternatively, students may be permitted to complete at Graduate Certificate or Graduate Diploma level. Each subject is delivered on a modular basis, normally outside business hours, over a two week period. Assessment for each subject normally occurs three weeks after delivery.

Course subjects

Semester 1 (Graduate Certificate)

HMM649  Fundamentals of Industrial Engineering
HMM650  Process Improvement and Quality
HMM663  Enterprise Management Systems

HMM657  Computing for Industrial Engineering

Semester 2 (Graduate Diploma)

HMM658  Expert Systems, Simulation and Modelling
HMM665  Systems Optimisation and Reliability
HMM655  Decision Analysis
HMM656  Design of Physical Facilities

Semester 3 (Masters)

HMM659  Minor Thesis, OR
HMM680  Project, and
2 approved subjects

* Approved subjects must have a common theme

Entry requirements

A degree in a professional field from a recognised tertiary institution or such qualification or experience which in the opinion of the selection committee is of a satisfactory standard and suitable preparation for entry to the program.

Application procedure

Direct application to the Industrial Research Institute Swinburne (IRIS)

Further information

Contact the Industrial Research Institute Swinburne (IRIS) on:
Tel: +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hanmimi@swin.edu.au
Website: www.swin.edu.au/iris

INDUSTRIAL INFORMATION TECHNOLOGY

M060  Graduate Certificate of Engineering (Industrial Information Technology)
M061  Graduate Diploma of Engineering (Industrial Information Technology)
M062  Master of Engineering (Industrial Information Technology)

The Master of Engineering (Industrial Information Technology) program incorporates the Graduate Certificate and Graduate Diploma. At the Graduate Certificate level, the emphasis is on the acquisition of an industry-recognised competency, leading to certification from major industry vendors and organisations. The Graduate Diploma enables professionals to develop additional skills including project management, process improvement, programming or enterprise requirements planning. In the Masters level, participants choose further elective subjects and develop hands-on skills through a project or thesis.

Aims & Objectives

The Masters program is designed to generate high-calibre industry professionals with the capacity to undertake projects in the industrial IT environment.

Campus

Hawthorn

Course duration

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

Structure

This Masters program incorporates the Graduate Certificate and Graduate Diploma. Students must achieve 100 credit points with an average of not less than 65% at Graduate Diploma level to continue through to the Masters program. Alternatively, students may be permitted to complete at Graduate Certificate or Graduate Diploma level. Each subject is delivered on a modular basis, normally outside business hours, over a two week period. Assessment for each subject normally occurs three weeks after delivery.
The Master of Engineering (Industry) program has been specifically developed to meet the needs of companies in the broad industry and research sectors. Companies, in consultation with themselves, have particular strategic needs for development of their employees.

Enterprise Systems Subject Group
- HIT5062 Enterprise Systems Concepts
- HIT5503 Implementing Enterprise Systems
- HIT5061 Factory Communication and Interfacing
- HIT5088 Customising Enterprise Systems

Programming Subject Group
- HIT5077 Event-Based Programming
- HIT7041 Multimedia Web Development
- HIT5078 Object-Oriented Design and Programming
- HIT5089 Technical Programming

IT and Process Management Subject Group
- HIT5075 Practical IT Project Management
- HIT5076 Management of IT
- HMM636 Technology Management

Semester 3 (Masters)
- HIT702 Minor Thesis, or 2 approved subjects and 1 project

Entry requirements
- A degree in engineering or science/computer science from a recognised tertiary institution.

Application procedure
Direct application to the Industrial Research Institute Swinburne (IRIS).

Further information
Contact the Industrial Research Institute Swinburne (IRIS) on:
Tel: +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hsmirios@swin.edu.au
Website: www.swin.edu.au/iris

INDUSTRY

IRIND1 Graduate Certificate of Engineering (Industry)
IRIND2 Graduate Diploma of Engineering (Industry)
IRIND3 Master of Engineering (Industry)

The Master of Engineering (Industry) program has been specifically developed to allow students to exploit its flexibility and undertake an individualised learning program. The Industrial Research Institute Swinburne (IRIS) offers a suite of courses deriving from formal units offered outside IRIS and also workplace learning derived from formal units offered outside IRIS and also workplace learning

Aims & Objectives
The program aims to provide substantial flexibility in developing an individualised learning program which incorporates learning outcomes associated with the full IRIS suite of postgraduate course offerings. Hence, the aims and objectives of a particular individualised program are best defined by the prospective student through a process of first defining his/her learning needs and then relating these to the learning objectives of IRIS courses.

Campus
Hawthorn

Course duration
- Graduate Certificate: one semester full-time or equivalent part-time.
- Graduate Diploma: two semesters full-time or equivalent part-time.
- Masters: three semesters full-time or equivalent part-time.

Structure
The Master of Engineering (Industry) program incorporates the Graduate Certificate and Graduate Diploma in Engineering (Industry). Students must achieve 100 credit points with an average of not less than 65% at Graduate Diploma level to continue through to the Masters program. Alternatively, students may be permitted to complete at Graduate Certificate or Graduate Diploma level. To complete at the Graduate Certificate level, students select, in consultation with the course convenor, four subjects from any of the IRIS courses listed below. At the Graduate Diploma level, students select, in consultation with the course convenor, eight subjects from any of the IRIS courses listed below. At the Masters level requires students to complete eight subjects from any of the IRIS courses listed below plus a Minor Thesis.

Each subject is delivered on a modular basis, normally outside business hours, over a two week period. Assessment for each subject normally occurs three weeks after delivery.

It should be noted that up to 25 credit points may be earned through approved Industry-Based/learning projects (in addition to the Master project listed in other IRIS course descriptions).

Course subjects
Subjects are selected from any of the IRIS course listed below. The subjects are listed under each individual course entry in this handbook.

- CAD/CAM
  - Computer Integrated Manufacture
- Industrial Engineering
- Industrial Information Technology
- Metrology and Quality
- Product Design Innovation
- Microsystem Technology
- Robotics and Automation

Entry requirements
A degree in a professional field from a recognised tertiary institution or such qualification or experience which, in the opinion of the selection committee, is of a satisfactory standard and suitable preparation for entry to the program.

Application procedure
Direct application to the Industrial Research Institute Swinburne (IRIS).

Further information
Contact the Industrial Research Institute Swinburne (IRIS) on:
Tel: +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hsmirios@swin.edu.au
Website: www.swin.edu.au/iris
LOGISTICS

C066 Graduate Certificate of Technology (Logistics)
C076 Graduate Diploma of Technology (Logistics)
C086 Master of Technology (Logistics)

The suite of postgraduate programs in Logistics is designed to develop expertise in the technical and managerial aspects of the industry. The use of industrial practitioners, to bring current case studies into the class for presentation and discussion, is a particular feature of many of the subjects, thus keeping the course relevant and at the leading edge of business and industry operations.

Originally, logistics had a transportation and warehousing focus, which has gradually evolved into a ‘customer driven’ integrated management systems focus. The Council of Logistics Management defines logistics as:

"the process of planning, implementing and controlling the efficient flow and storage of raw materials, in-process inventory, finished goods, services and related information from point of origin to point of consumption (including inbound, outbound, internal and external movements) for the purpose of conforming to customer requirements”.

This definition has been further developed and logistics in the context of these programs further integrates logistics into all aspects of an organisation’s operations including manufacturing, production and business.

Aims & Objectives

This advanced study program includes:

- The development of analytical skills to manage integrated logistics.
- An understanding of the process of managing projects and contents.
- The development of computer skills to understand the application of computer systems to enhance the operation of logistics activities.
- An examination of the current issues related to logistics operations within organisations.
- An examination of the current issues related to logistics operations within the country and offshore.
- An appreciation of the place of human resources in the operation and the influence they have on effective outcomes.
- Acquisition of advanced skills to appreciate the complex issues of the industry and to provide possible solutions to those issues.

Campus

Hawthorn/Distance Education.

Course duration

Graduate Certificate: one semester full-time or two semesters part-time.
Graduate Diploma: two semesters full-time or equivalent part-time
Masters: three semesters full-time or equivalent part-time.

Structure

The short course element of the program will be conducted at the teaching complex at Avalon International Airport. Any other teaching will be conducted at Avalon International Airport at reasonable rates for students on the short course program. Payment for this will be arranged separately as part of the short course administration. Avalon can also be reached by car on a daily basis from the city.

Admission dates for individual programs will normally be in February or July or both depending upon timetabling and resources.

Course subjects

State 1 (Graduate Certificate)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES6133</td>
<td>Industry Overview and the Customer</td>
</tr>
<tr>
<td>HES6131</td>
<td>Procurement &amp; Inventory Management</td>
</tr>
<tr>
<td>HES6132</td>
<td>Managing Modern Distribution</td>
</tr>
<tr>
<td>HES6130</td>
<td>Strategic Logistics Planning</td>
</tr>
</tbody>
</table>

Stage 2 (Graduate Diploma)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES7130</td>
<td>Human Resources and Industrial Relations in Logistics</td>
</tr>
<tr>
<td>HES7131</td>
<td>Introduction to Finance &amp; Administration in Logistics</td>
</tr>
<tr>
<td>HES7132</td>
<td>Administration and Finance of Logistics</td>
</tr>
<tr>
<td>HES7133</td>
<td>Transport and Freight Operations</td>
</tr>
</tbody>
</table>

Stage 3 (Master)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES8130</td>
<td>Research Project (Case Studies)</td>
</tr>
</tbody>
</table>

Entry requirements

An appropriate four-year engineering degree or equivalent. Applicants with qualifications and experience which, in the opinion of the School, are of satisfactory standard will also qualify for entry. In some cases, extra preliminary study may be required. For some programs an interview may be necessary.

Application procedure

Application forms are available from the School of Engineering & Science or on our website at: www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

Further information

Contact the School of Engineering & Science on: +61 3 9214 8372
Fax: +61 3 9214 8264
Email: engscio@wswin.edu.au

METROLOGY AND QUALITY

IRMQ1 Graduate Certificate of Engineering (Metrology and Quality)

This is a unique course covering theoretical and practical aspects involved in metrology and quality. It has been developed in collaboration with the Metrology Society of Australia (MSA). The course covers measurement, standards and management. One of four areas of specialisation may be selected, and students gain practical experience in the elements of metrology. The four areas of specialisation are: dimensional and mechanical, electrical and time and frequency, chemical and temperature, optical and radiometry.

The major part of the course is delivered by distance education, and subjects are presented by recognised experts in the field of metrology and quality.

The course provides skills that will enable participants to:

- Calculate the uncertainty of measurement.
- Select and apply an appropriate statistical technique for a measurement task.
- Understand basic metrological terms.
- Explain the role of NATA, NSC, CSIRO, ISO, SA, BIPM.
- Write and update a quality manual.
- Understand different quality standards and their purpose.
- Understand the calibration process.
- Manage a measurement system.
- Design practical measurements according to metrological practices and standards.
- Conduct measurements using standard equipment and instruments.
- Competently analyse and report experimental results.

Aims & Objectives

The Graduate Certificate in Metrology & Quality has the following objectives:

- To provide training and experience in specific areas of Metrology.
- To provide individuals already working in Metrology with greater rigour in their understanding of the principles and practices involved, and to provide training for others desiring to transfer into the area from other industry positions.
- To provide a distance mode of delivery to enable those students who are employed in this field to learn in the workplace, while continuing to work.
- To prepare students for higher degree studies, and to provide a basis for entry into a Master of Engineering by research program in cases where a student achieves a high level of performance.
To prepare researchers embarking on experimentation programs in the application of techniques and practices used in measurement.

**Campus**
Distance Education/Learning

**Course duration**
One semester full-time or equivalent part-time

**Structure**
The course consists of four subjects. The first three subjects are delivered via distance education. The fourth subject, Metrology and Quality Practices combines both distance education and a short intensive period of workshop and laboratory exercises and offers specialisation in one of the following areas:
- Dimensional & Mechanical
- Electrical & Time & Frequency
- Chemical & Temperature
- Optical & Radiometry

**Course subjects**
- HIR101 Experimental Analysis
- HIR102 Measurement Systems
- HIR103 Calibration, Documentation and Laboratory Management
- HIR104 Metrology and Quality Practices

**Entry requirements**
A diploma or degree in engineering or science from a recognized tertiary institution and relevant industrial experience. Consideration will be given to those who do not possess formal qualifications, but can demonstrate substantial industrial experience.

**Application procedure**
Direct application to the Industrial Research Institute Swinburne (IRIS)

**Further information**
Contact the Industrial Research Institute Swinburne (IRIS) on:
Tel: +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hsmirrors@swin.edu.au
Website: www.swin.edu.au/iris

**MICROELECTRONIC ENGINEERING**

**E102** Graduate Certificate of Engineering (Microelectronic Engineering)

**E101** Graduate Diploma of Engineering (Microelectronic Engineering)

**E100** Master of Engineering (Microelectronic Engineering)

The major role of professional engineers in the Australian workforce is to act as agents for change through the development of technically sound, economically viable and socially acceptable solutions to complex and new technical problems. In this context, the microelectronics engineer today is faced with many challenges brought about by the rapid advances in computer, multimedia and telecommunication technology.

The Master of Engineering in Microelectronic design stream addresses all aspects of this technology, from high level specification of microelectronic systems, through implementation alternatives, to realization of integrated circuits. The course aims to produce engineers with the necessary skills and practical experience to satisfy the requirements of the microelectronics industry. An important feature of the course is the opportunity it provides for the students to design their own integrated circuits.

The Chipskills project is a Victorian Government initiative that seeks to develop a range of professional and vocational training programs in areas relevant to the semiconductor industry. The project involves a consortium of Victorian universities, TAFE colleges and industries. The partner universities in the consortium are:
- Swinburne University of Technology
- RMIT University
- Latrobe University
- Victoria University

**Aims & Objectives**
The general aims of the course are to provide graduates with:
- High levels of both logical and lateral thinking development so that graduates can lead constructive change through innovation.
- The ability to use a multi-disciplinary engineering philosophy towards the synthesis, design and integration of solutions.
- A level of professional development in confidence, judgment and experience such that the implementation of proposed solutions proceeds successfully.

The specific aims of the course are to:
- Develop integrated circuit design expertise in embedded system, digital, mixed signal and system-on-chip.
- Develop understanding of the device physics, fabrication process and testing needed by IC designers.
- Develop the advanced technical skills necessary to master state of the art microelectronic technology.
- Develop research skills necessary to obtain specialist knowledge of subjects pertinent to integrated circuit design.
- Cultivate logical and lateral thinking that leads to creation and innovation in the pursuit of solutions to engineering problems.

**Campus**
Hawthorn

**Course duration**
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Master: three semesters full-time or equivalent part-time.

**Structure**
The Master of Engineering course is structured to allow students to exit at different academic levels with either a Graduate Certificate, Graduate Diploma or Master of Engineering qualification. The completion of a Graduate Certificate in Microelectronic Engineering requires successful completion of four units, Graduate Diploma in Microelectronic Engineering requires successful completion of either eight units or six units and minor project, and the Master of Engineering in Microelectronic Engineering requires successful completion of either eight units and major project or ten units and minor project.

For the coursework component, a full-time student will take four units per semester taught in the evening. Where feasible, the Masters program will be structured as two semesters of coursework, followed by a one semester project. This means that students will be available to the industry after only one year (perhaps on a ‘cadet’ or trial basis for one semester, if they are permitted to undertake their project as part of their employment.

**Course subjects**

**Semester 1 (Graduate Certificate)**
- MMV6001 HDL and High Level Synthesis
- MMV6002 Integrated Circuit Design Techniques
- MMV6003 EDA Tools and Design Flow
- Plus one unit from the electives.

**Semester 2 (Graduate Diploma)**
- 8 Course Units, OR
- 6 Course Units & a Minor Project

The course units must include the 3 core units, MMV6013 Project Management and Entrepreneurship, and 214 units from the electives.

**Semester 3 (Master)**
- 8 Course Units & a Major Project, OR
- 10 Course Units & a Minor Project
The course units must include the 3 core units, MMV6013 Project Management and Entrepreneurship, and 4/6 units from the electives.

Electives

- MMV6004 Digital System Design
- MMV6005 Embedded Systems
- MMV6006 Emerging Topics in C Design
- MMV6007 Advanced VLSI Design
- MMV6008 VLSI Digital Signal Processing Systems
- MMV6009 Reliability and Testability in IC Design
- MMV6010 Introduction to MEMS
- MMV6011 Introduction Semiconductor Device Fabrication
- MMV6012 Semiconductor Device Physics
- MMV6013 Project Management & Entrepreneurship
- MMV6014 RF & Mixed Signal Design
- MMV6020 Minor Project
- MMV6030 Major Project

Entry requirements

A four year Bachelor of Engineering degree in Electronic Engineering or Computer Engineering or Communication/Telecommunication Engineering, or a four year Bachelor of Science (Honours) degree in an appropriate field, or an equivalent qualification.

Applicants with a three year Bachelor of Science degree (in an appropriate field) or a Bachelor of Engineering degree in another field may also be considered for admission on the condition that they may be required to take up additional (preliminary) subjects that will strengthen their knowledge and skills in digital systems, analog electronics and microprocessor systems.

Application procedure

Apply directly to the School of Biophysical Sciences and Electrical Engineering. International students should contact the International Student Unit on +61 3 9214 8859 or via Email: intl-admissions@swin.edu.au

Further information

Contact the School of Biophysical Sciences and Electrical Engineering
Telephone: +61 3 9214 8859
Facsimile: +61 3 9819 0856
Email: bsee@swin.edu.au
Website: www.swin.edu.au/bioscieleceng

MICROSYSTEM TECHNOLOGY

**IRMICR1 Graduate Certificate of Engineering (Microsystem Technology)**

**IRMICR2 Graduate Diploma of Engineering (Microsystem Technology)**

**IRMICR3 Master of Engineering (Microsystem Technology)**

Microsystems technology has been called a revolution. It is already having an impact on all facets of human life including manufacturing, communication, entertainment, health and biotechnologies. This Microsystems technology program is aimed at developing the design, fabrication and testing skills needed for professionals interested in making a career in the exciting field of microengineering. Microsystems technology is a multidisciplinary area and requires expertise that includes elements of physics, chemistry, biology, electrical engineering and materials engineering. Hence, this course is designed to meet the needs of professionals working in engineering as well as science, with a good balance of the subjects dealing with both aspects.

The course includes some of the following topics:
- Micromachining Technology
- Micro lithography
- Principles, Design and applications of Microsystems
- Deposition and replication methods

- Computer Modeling and Finite Element Methods
- Computer Aided Design
- Computer Control and Sensing
- Product Innovation and Management
- Bio-MEMS
- Smart materials & structures and their role in building microsystems

**Aims & Objectives**

The major objectives of this program are to:
- Introduce the students to the concepts of microengineering underpinning their relevance to the macro world.
- Develop the awareness and understanding of the processing technologies.
- Impart the skills necessary to design and simulate the microsystems using specific software tools.
- Provide students with an appreciation of the most recent applications of microsystems.

**Campus**

Hawthorn

**Career opportunities**

Microsensors and actuators have a key role in many systems including: the automotive, advanced satellite, and real time bio-analytical systems. Professional engineers with a sound postgraduate qualification and a comprehensive understanding of the design and fabrication technologies will have excellent opportunities for employment in a wide range of industries and research organisations. Internationally, many new graduates rapidly go on to form their own companies.

**Course duration**

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

**Structure**

The Master of Engineering (Microsystem Technology) program incorporates the Graduate Certificate and Graduate Diploma levels. Students must achieve 100 credit points with an average of not less than 65% at Graduate Diploma level to continue through to the Masters program. Alternatively, students may be permitted to complete at Graduate Certificate or Graduate Diploma level. Each subject is delivered on a modular basis, normally outside of business hours, over a two-week period. Assessment for each subject normally occurs three weeks after delivery.

**Course subjects**

**Semester 1 (Graduate Certificate)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMM682</td>
<td>Computer Aided Design</td>
</tr>
<tr>
<td>HIR106</td>
<td>Product Management &amp; Innovation</td>
</tr>
<tr>
<td>HIR110</td>
<td>Microlithography</td>
</tr>
<tr>
<td>HIR111</td>
<td>Micromachining Technology</td>
</tr>
</tbody>
</table>

**Semester 2 (Graduate Diploma)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIR112</td>
<td>Deposition &amp; Replication</td>
</tr>
<tr>
<td>HIR113</td>
<td>Microsystems - Principles, Design &amp; Applications</td>
</tr>
<tr>
<td>HIR114</td>
<td>Computer Modelling and nFEM</td>
</tr>
<tr>
<td>HMM687</td>
<td>Computer Control and Sensing</td>
</tr>
</tbody>
</table>

**Semester 3 (Masters)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIR115</td>
<td>Minor Thesis</td>
</tr>
</tbody>
</table>

**Entry requirements**

A degree in engineering, science or design from a recognised tertiary institution (or approved equivalent). Applicants who do not hold an appropriate qualification but who have considerable relevant work experience may initially be admitted to the Graduate Certificate level.

**Application procedure**

Direct application to the Industrial Research Institute Swinburne (IRIS).
Further information
Contact the Industrial Research Institute Swinburne (IRIS) on:
Tel: +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hsm@ics@swin.edu.au
Website: www.swin.edu.au/iris

NETWORK SYSTEMS

S049 Graduate Certificate of Science (Network Systems)
S059 Graduate Diploma of Science (Network Systems)
S069 Master of Science in Network Systems

The Master of Science in Network Systems is part of a nested suite of programs, which includes a Graduate Certificate, and a Graduate Diploma with different entry points depending upon previous academic studies and work experience.

The program is intended both for new graduates and for experienced graduates who wish to update their skills or change their area of specialisation. It is concerned with the design, management and maintenance of networks in corporations and public networks, or service provision to public and private networks.

The convergence of computing and telecommunications is creating a new kind of networking technology based on IP networks and multimedia applications. Networks today are expected to offer multimedia services anywhere and anytime. Within corporations, intranets support the interaction of people and the linking of people to information systems. There is an increasing demand for mobility. People increasingly expect seamless access to global networks. IP networking is expected to be everywhere and to offer multimedia services of all types.

Aims & Objectives
The aim of this course is to provide excellent career opportunities by offering a high level coverage of networking principles and an appreciation of the emerging issues and technologies in networks, together with explicit competencies (industry certification material such as Cisco CCNA and CCNP and Microsoft MCSE).

Note: Certification examinations are not part of this course. In some cases the course covers only part of the requirements. For further information see:
www.swin.edu.au/hesw/EndIT/CCNA-CCNP.html or
www.swin.edu.au/hesw/EndIT/Networks.html

Campus
Hawthorn

Career opportunities
Industry certified skills are highly valued, and there is a need for professionals with a solid understanding of the design, management and maintenance of modern networks.

Professional recognition
The CCNA, CCNP and MCSE certifications are widely recognised and valued in industry. This course fully prepares students for the CCNA certification exam and partly for MCSE and CCNP.

Course duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

Structure
The Graduate Certificate requires the completion of four subjects for a total of 50 credit points. After successful completion of the Graduate Certificate, students may exit with a Graduate Certificate in Network Systems or progress to the Graduate Diploma and Master levels.

The Graduate Diploma requires the completion of eight subjects for a total of 100 credit points. On successful completion of the Graduate Diploma, students may exit with a Graduate Diploma of Science in Network Systems or transfer to the Master program.

The Masters program requires the completion of twelve subjects for a total of 150 credit points. Up to 50 credit points can be replaced with Research Project (minor thesis) subject approval on a case-by-case basis.

Unless otherwise indicated, each subject has a value of 12.5 credit points.

S069 Course duration
Part-time Graduate Certificate: HET708, HET710 and HET712.

Single subject enrolment is also available, subject to availability of places.

Course subjects
HET706 Networks and Routing*
HET708 Internetworking Technologies*
HET710 Network Administration#
HET712 Enterprise Networking#
HET713 Internetworking Routing$
HET753 Remote Access Networks$
HET774 Internetwork Switching
HET715 Network Computing
HET716 Networked Applications
HET717 Simulation of Networks
HET718 Mobile and Personal Networking
HET729 Design and Management of Networks
HET720 Real Time Operating Systems
HET736 Broadband Multimedia Networks

Development and research projects are available for approved students as follows:
HET724 Research Paper (12.5 credit points)
HET725 Research Report (25 credit points)
HET721 Minor Thesis (50 credit points)

* Prepares students for CCNA (Cisco Certified Network Associate) Qualification
# Prepares students for MCSE (Microsoft Certified Systems Engineering) Qualification. Covers 4 core units of MCSE.
$ Prepares students for CCNP (Cisco Certified Network Professional) Qualification. Each subject covers one quarter of CCNP

Entry requirements
A degree or equivalent in engineering, science, information technology, or in business or commerce with an emphasis on information technology. Applicants without a relevant qualification but with substantial relevant experience, may gain entry into the Graduate Certificate level.

Application procedure
Contact the School of Biophysical Sciences and Electrical Engineering to obtain a direct application form. Application forms are also available at:
International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information
Contact the School of Biophysical Sciences and Electrical Engineering
Telephone: +61 3 9214 8859
Fax: +61 3 9819 0856
Email: base@swin.edu.au
Website: www.swin.edu.au/bioscielceng
### PAVEMENT TECHNOLOGY

**CE60**  Graduate Certificate of Engineering (Pavement Technology)

**CE70**  Graduate Diploma of Engineering (Pavement Technology)

**CE80**  Master of Engineering (Pavement Technology)

This suite of postgraduate programs in pavement technology is designed to develop expertise in the technical and managerial aspects of the industry. The use of industrial practitioners, to bring current case studies into the classroom for presentation and discussion, is a particular feature of many of the subjects, thus keeping the course relevant.

**Aims & Objectives**

The objective of the program is to provide a body of advanced study in subjects related to Pavement Technology. The program assists the student to gain knowledge through lectures and case studies and to develop new knowledge through research. The advanced study includes:

- The development of analytical skills to application to pavement technology.
- An understanding of the process involved in pavement technology.
- The development of computer skills to understand the application of computer systems in pavement technology.
- An examination of the current issues related to pavement technology within the country and offshore.
- Acquisition of advanced skills to appreciate the complex issues of pavement technology and to provide possible solutions to those issues.

**Campus**

Hawthorn

**Course duration**

Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

The Masters program may be offered in a format which will allow students to complete studies in less than eighteen months by including most of the project component in a summer semester.

**Structure**

**Graduate Certificate Program**
To qualify for the Graduate Certificate students complete four subjects (12.5 credit points each) from those listed below for a total of 50 credit points.

- HCE600  Introduction to Pavements
- HCE601  Pavement Design
- HCE602  Pavement Construction
- HCE603  Pavement Wearing Surfaces
- HCE604  Asphalt Mix Design
- HCE605  Pavement Maintenance, Rehabilitation & Recycling

A maximum of 2 subjects may be selected from:

- HCE690  Civil Engineering Project Control
- HCE691  Civil Engineering Management
- HCE692  Communications
- HCE790  Financial Project Control

**Graduate Diploma Program**
To qualify for the Graduate Diploma, students complete eight subjects (12.5 credit points each) for a total of 100 credit points.

- HCE600  Introduction to Pavements
- HCE601  Pavement Design
- HCE602  Pavement Construction
- HCE603  Pavement Wearing Surfaces
- HCE604  Asphalt Mix Design
- HCE605  Pavement Maintenance, Rehabilitation & Recycling
- HCE606  Industrial & Heavy Duty Pavements
- HCE607  Pavement Management Systems

A maximum of 2 subjects may be selected from:

- HCE690  Civil Engineering Project Control
- HCE691  Civil Engineering Management
- HCE692  Communications
- HCE790  Financial Project Control

**Stage 3**

- HCE790  Financial Project Control

**Stage 4**

- HCE773  Research Project (50 Credit Points)

**Entry requirements**

A four-year engineering degree or equivalent. Applicants with other qualifications and experience which, in the opinion of the School, are of satisfactory standard will also qualify for entry. In some cases extra preliminary study may be required. For some programs an interview may be necessary.

**Application procedure**
Application forms are available from the School of Engineering & Science or on our website at www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

**Further information**
Contact the School of Engineering & Science on +61 3 9214 8372
Fax: +61 3 9214 8264
Email: engsci@swin.edu.au

### RISK MANAGEMENT

**M077  Graduate Certificate of Technology (Risk Management)**

**M087  Graduate Diploma of Technology (Risk Management)**

**M097  Master of Technology (Risk Management)**

This program is designed primarily to meet the needs of personnel currently involved in, or wishing to be involved in the risk management industry. In addition, the program is designed to have considerable application for personnel in a wide range of technologically based industries including rail, shipping, heavy industry, the chemical industry and energy production.

Australian organisations increasingly face the challenge to provide more effective management of various financial and societal resources. All organisations need to know how to make good decisions in order to achieve goals and reduce those losses that arise from unexpected incidents, poor maintenance, accidents or
illness within the workforce. Also, legislation requirements for safety and occupational health impose important demands to ensure the overall well-being of people.

Risk management involves processes and techniques aimed at the cost effective loss prevention concerning an organisation’s assets and resources. The program covers areas of health, safety, plant, property, financial control and maintenance. At the Graduate Diploma and Masters degree levels, students can select projects from a field of topics that reflect their particular specialisation.

Aims & Objectives
This program addresses needs of industry to improve the management of resources associated with short and long term risk to people, assets and production. The program provides further studies for graduates from all branches of engineering, applied science and business who wish to gain more specialist knowledge in Risk Management.

Campus
Distance Education

Career opportunities
There are many ways in which organisations can suffer loss. Consequently a number of organisations employ professionals in order to ensure that adequate loss prevention management processes and strategies are in place to ensure that losses are avoided or kept to a minimum. Career opportunities therefore exist throughout the broad field of commerce and industry.

Course duration
Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.
Masters: three years part-time.

Structure
The course is divided into three stages, each of which aims to prepare the student for the next level of study. Successful completion of Stage 1 (Graduate Certificate) may lead to the Graduate Diploma and Master of Technology (Risk Management).

Course subjects

Stage 1 (Graduate Certificate)
HMM720 Risk Perception and Analysis
HMM721 Risk Management Principles
HMM722 Quantitative Risk and Modelling
HMM723 Financial Risk Management

Stage 2 (Graduate Diploma)
HMM724 Risk Management Systems
HMM725 Risk Technology Strategies
HMM726 Industrial Environment and Human Factors in Risk
HMM727 Risk Research and Project

Stage 3 (Master)
HMM811 Risk Dissertation

Entry requirements
A degree or diploma in a professional field from a recognised tertiary institution or approved equivalent. Applicants with qualifications and experience which, in the opinion of the selection committee, are of satisfactory standard will also qualify for entry.

Application procedure
Application should be made directly to the School of Engineering & Science on our website at www.swin.edu.au/hed/postgrad/postgrad_application_2003.pdf

Further information
Contact the School of Engineering & Science on +61 3 9214 8372
Fax: +61 3 9214 8264
Email: engsci@swin.edu.au

ROBOTICS AND AUTOMATION

M091 Graduate Certificate of Engineering (Robotics and Automation)
M092 Graduate Diploma of Engineering (Robotics and Automation)
M093 Master of Engineering (Robotics and Automation)

The Robotics and Automation program combines the disciplines of electronic, mechanical and manufacturing engineering, computer science and software engineering. The program is designed to meet the needs of personnel currently involved in, or intending to be involved in, the robotics and automation industry. It also has considerable application for personnel in a wide range of technologically-based industries including rail, shipping, heavy industry, the chemical industry and energy production.

Robots and Automation may include some or all of the following elements in an integrated system:

- Numerically Controlled (NC) machine tools.
- Computer Numerical Control (CNC).
- Direct Numerical Control (DNC).
- Flexible Manufacturing Systems (FMS).
- Industrial robots.
- Automated assembly.
- Automated inspection systems
- Automated warehousing.
- Unmanned manufacturing systems.
- Computer Aided Design (CAD).

Graduates will be readily employable by those manufacturing companies who intend to adopt advanced manufacturing technologies, particularly robotics and automation. It is expected that such companies will recognise the advantages of employing a professional engineer who has a sound postgraduate qualification, a comprehensive understanding of the practical applications of robotics and automation systems and demonstrated ability to apply specific knowledge in areas of robotics and automation in solving industrial problems.

Campus
Hawthorn

Career opportunities
Graduates will have the ability to work in a wide range of technologically-based industries including rail, shipping, heavy industry, chemical and energy production, as a project engineer or advanced programs manager. Graduates may also seek employment related to the marketing of hardware/software systems or as consultants.

Course duration
Graduate Certificate: one semester full-time or equivalent part-time.
Graduate Diploma: two semesters full-time or equivalent part-time.
Masters: three semesters full-time or equivalent part-time.

Structure
The Master of Engineering (Robotics and Automation) incorporates the Graduate Certificate and Graduate Diploma of Engineering (Robotics and Automation). Students must achieve 100 credit points with an average of not less than 65% at Graduate Diploma level to continue through to the Masters program. Alternatively, students may be permitted to complete at Graduate Certificate or Graduate Diploma level. Each subject is delivered on a modular basis, normally outside business hours, over a two week period. Assessment for each subject normally occurs three weeks after delivery.

Course subjects
Semester 1 (Graduate Certificate)
HMM662 Computer Aided Design
HMM664 Advanced Robotics
HMM665 Robot Systems
HMM668 Numerical Control Systems
Entry requirements
An engineering degree from a recognised tertiary institution or such qualification or experience which, in the opinion of the selection committee, is of a satisfactory standard and suitable preparation for entry to the program.

Application procedure
Direct application to the Industrial Research Institute Swinburne (IRIS).

Further information
Contact the Industrial Research Institute Swinburne (IRIS) on +61 3 9214 5153
Fax: +61 3 9214 5050
Email: hsmirnios@swin.edu.au
Website: www.swin.edu.au/iris

HIGHER DEGREES BY RESEARCH

Y007 Doctor of Philosophy (Electrical Engineering)
Graduates who hold a Bachelor degree and who have shown a high standard of academic achievement in that course may be admitted to candidature for the degree of Doctor of Philosophy. The higher degree programs currently available require the presentation of a major thesis based on original research, investigation or development work, carried out either within Swinburne or externally, providing that adequate facilities and supervision can be arranged. External work can be carried out in the approved industrial, governmental, educational or research organisation.

The Statute for the degree of Doctor of Philosophy sets out the regulations governing this qualification. See website: www.swin.edu.au/irgs/legts/phdpolicy.htm

Aims & Objectives
The PhD degree provides training and education with the objective of producing graduates with the capacity to conduct research independently at a high level of originality and quality. The student ought to be capable by the end of his/her candidature of conceiving, designing and carrying to completion a research program without supervision. The PhD candidate should uncover new knowledge either by the discovery of new facts, the formulation of theories or the innovative re-interpretation of known data and established ideas.

Campus
Hawthorn

Course duration
The expected normal duration of candidature is 3.5 years full-time or 6 years part-time.

Structure
Candidates normally undertake the research at Swinburne for the appropriate duration and, especially part-time candidates and those based in industry, must be able to demonstrate to the satisfaction of the Committee that they are able to meet with their supervisors in person to discuss progress at least once every calendar month or have made satisfactory arrangements for discussion to occur by other means e.g. via email.

All candidates are expected to demonstrate satisfactory progress on an annual basis. To be assessed for a Doctor of Philosophy, candidates must present a major thesis based on original research, investigation or development work carried out under Swinburne staff supervision either at Swinburne or externally.

Entry requirements
Applicants should have a bachelor's degree with honours (first or second class), or the equivalent in a discipline appropriate to the proposed area of study. The level of academic achievement in prior studies should be of a very high standard. Other relevant activities, including work experience, may be taken into account in assessing applications.

Application procedure
Application forms are available from the Swinburne Graduate Research Centre.

Further information
Contact the School of Biophysical Sciences and Electrical Engineering
Telephone: +61 3 9214 8859
Fax: +61 3 981.9 0856
Email: bsee@swin.edu.au
Website: www.swin.edu.au/bioscieleceng

Y097 Master of Engineering (Electrical Engineering)
Research in this course is concentrated in two Centres: Centre for Intelligent Systems Concentrates on developing and applying artificial networks, expert systems, fuzzy logic and genetic algorithms.

Swinburne Laboratory for Telecommunications Research Provides a focus for research into the rapidly evolving digital transmission technologies, including optic fibre-based and radio-based mobile, multimedia and multimedia service networks.

Campus
Hawthorn

Course duration
Generally over a period of two years full-time or four years part-time.

Structure
Research can be undertaken at Swinburne, or an approved external organisation. A major thesis is the sole form of assessment for this award.

Entry requirements
Applicants holding a bachelor degree with honours, or other qualifications deemed equivalent, are eligible for admission.

Application procedure
Contact the School of Biophysical Sciences and Electrical Engineering

Further information
Contact the School of Biophysical Sciences and Electrical Engineering
Telephone: +61 3 9214 8859
Fax: +61 3 981.9 0856
Email: bsee@swin.edu.au
Website: www.swin.edu.au/bioscieleceng
HEALTH AND HUMAN SERVICES

APPLIED STATISTICS

2191 Graduate Certificate of Science (Applied Statistics)
2192 Graduate Diploma of Science (Applied Statistics)
2193 Master of Science (Applied Statistics)

This program is designed for graduates in the humanities, social sciences and health sciences who have a professional interest in the use of statistics. It is also applicable to other graduates who have a need to use statistics in their work but have not had sufficient or current training in applied statistics. It concentrates on practical skills and enables participants to broaden their theoretical and practical knowledge of the basic areas of statistics.

Campus
Hawthorn

Career opportunities
Research officer/assistant positions in a wide variety of areas including government agencies, market research, education, medical and biological sciences, town planning, social research and sport.

Course duration
Graduate Certificate: One year part-time or one semester full-time
Graduate Diploma: Two years part-time or one year full-time.
Master: Three years part-time or one and a half years full-time.

Structure
The Master of Science in Applied Statistics is a nested program which incorporates the Graduate Certificate and Graduate Diploma in Applied Statistics. Full-time students undertake four subjects per semester, part-time students undertake two subjects per semester. The class contact hours for each subject will normally be three hours per week for one semester, consisting of a combination of lectures and practical work as applicable to the topic. All academic subjects carry 12.5 credit points. Some subjects are available in an off-campus flexible learning mode (Distance Learning).

To qualify for the Graduate Certificate students complete four Level 1 or 2 subjects.

Graduate Diploma students complete eight Level 1 & 2 subjects of which at least three subjects must be from Level 2.

Master students undertake ten subjects of which at least six subjects must be from Levels 2 or 3 and at least two from Level 3. Students must also complete a 25 credit point Industrial/Research project. This gives students the opportunity to apply the knowledge and skills developed earlier in the course to a research project. It is preferred, but not essential, that the problem be employer-based and have direct relevance to the student's employment.

Course subjects

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<tr>
<th>Level</th>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>1</td>
<td>HMS770</td>
<td>Statistical Practice 1</td>
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<td>HMS771</td>
<td>Statistical Practice 2</td>
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<td>HMS772</td>
<td>Basic Statistical Computing</td>
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<td>HMS773</td>
<td>Survey Research Practice</td>
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<td>HMS774</td>
<td>Introduction to Health Statistics</td>
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<td>HMS775</td>
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<td>2</td>
<td>HMS780</td>
<td>Multivariate Statistics</td>
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<td>HMS781</td>
<td>Further Statistical Computing</td>
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<td>HMS783</td>
<td>Demographic Techniques</td>
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<td>HMS784</td>
<td>Regression Models in Health</td>
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<td>HMS785</td>
<td>Epidemiological Methods</td>
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<td>HMS787</td>
<td>Database Development and Management</td>
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<td>HMS788</td>
<td>Sports Performance Modelling</td>
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<td>Level 3</td>
<td>HMS791</td>
<td>Structural Equation Modelling</td>
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<td>HMS792</td>
<td>Scale Development and Evaluation</td>
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<td>HMS793</td>
<td>Advanced Topics in Regression</td>
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<td>HMS794</td>
<td>Statistical Marketing Tools</td>
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<td></td>
<td>Plus</td>
<td>Industrial/Research Project (25.0 credit points)</td>
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Entry requirements
A degree from a recognised tertiary institution of approved equivalent. To be accepted into the Masters level of the program, students must have successfully completed the Graduate Diploma with at least a credit average in the Level 2 subjects. Other applicants with relevant academic and work experience may also be considered.

Application procedure
An application form is available from the School of Mathematical Sciences or downloaded from the website: www.swin.edu.au/statistics/postgrad_application_2003.pdf

Further information
Contact the School of Mathematical Sciences postgraduate course administrator on +61 3 9214 8936 or +61 3 9214 8484
Fax: +61 3 9819 0821
Email: statistics@swin.edu.au
Website: www.swin.edu.au/statistics

FAMILY THERAPY

N0811 Graduate Diploma of Social Science (Family Therapy)

Training in Family Therapy develops systemic thinking and understanding of complex social/relational processes including the emotional impact of social groups and family life on individual mental health and well being. Competency in systemic thinking and practices allows participants to contribute to and facilitate change processes in social contexts and has direct applications across a broad range of work places and client populations. Case work with families, family sensitive practise and collaborative partnerships with families in social services, education and mental health service provisions are all underpinned by the ideas and skills of Family Therapy.

Aims & Objectives
The philosophy underpinning this training program presumes that therapeutic competence is increased when the therapist has a flexible variety of options for any one therapeutic context. The systemic emphasis of this training program is complementary to, enriches, and is enriched by other therapeutic methodologies, whether intrapsychic or interpersonal, so that other therapeutic approaches are integrated rather than excluded as the student is encouraged to focus on the clinical skills of working with human systems. This course provides advanced level Family Therapy skills training, theoretical knowledge in Family Systems and builds on the students' existing counselling experience and training. Each student is expected to formulate their own learning plan and during the course will reflect on and articulate their individual development as qualified family therapists or more generalist workers within the family setting.

Campus
External Venue

Career opportunities
Counselling, Psychotherapy, Human Resources, Management
Professional recognition

The course is accredited by the Victorian Association of Family Therapy (VAFT), and its completion counts towards the VAFT Clinical Membership. The clinical membership (VAFT) entitles students to apply for a registration as a counsellor with the Psychotherapy and Counselling Federation of Australia (PACFA).

Course duration

Two years part-time

Structure

The Graduate Diploma in Family Therapy totals 100 credit points, comprising ten subjects. Subjects at stage 1 and 2 normally carry 12.5 or 6.25 credit points. In each year, 50 credit points (25 credit points each semester) constitutes a part-time load.

All classes are conducted at:

Williams Road Family Therapy Centre
3 Williams Road
Windsor

OR

Barwon Health - Swanston Centre
Cnr Myers Road and Swanston Street
Geelong

Course subjects

Year 1

Semester 1

HAW410 Family Therapy Theory I
HAW411 Family Therapy Application I

Semester 2

HAW412 Family Therapy Theory 2
HAW413 Family Therapy Application 2

Year 2

Semester 1

HAW420 Special Issues in Family Therapy I
HAW421 Family Therapy Application 3
HAW422 Clinical Supervision I

Semester 2

HAW423 Special Issues in Family Therapy 2
HAW424 Family Therapy Application 4
HAW425 Clinical Supervision 2

Entry requirements

Applicants must satisfy the following requirements:

- An undergraduate degree in the health or social sciences from a recognised Australian University, or equivalent qualifications.
- Training or experience in counselling psychotherapy for a minimum of one year.
- Normally work in a setting where they will take case responsibility for families and/or individuals.

Selection is made on the basis of the applicant's suitability for the course as determined by an interview, referee reports, and upon completion of a four-day introductory course to Family Therapy.

Application procedure

Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad, or by contacting the School of Social and Behavioural Sciences, or Williams Road Family Therapy Centre.

Further information

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

GESTALT THERAPY

N0810 Graduate Diploma of Social Science (Gestalt Therapy)

This Graduate Diploma program provides students with training in the theory and practice of Gestalt Therapy. It is designed for professionals in the mental health and human services fields, including counsellors and psychotherapists, educators and human resource personnel.

The fundamental rationale of this course is that Gestalt Therapy offers a flexible theoretical framework for use in a range of human service settings including counselling, psychotherapy, organisational management and education. Gestalt Therapy also provides a language for formulating objectives and assessing outcomes when working with people, a method for achieving these objectives, and a network of peers through which supervision and accountability can occur.

Aims & Objectives

The course aims to provide students with:

- Training in the essentials of Gestalt Therapy theory and practice, applicable in both their personal and professional lives;
- Support in the development of appropriate skills and competence in the application of Gestalt Therapy;
- Training which incorporates personal growth, experiential and didactic learning;
- Training which fosters the development of each student's unique therapeutic style;
- A community of people committed to the discussion, dissemination and exchange of ideas and knowledge about Gestalt Therapy theory and practice; and
- The skills and attitudes necessary to direct their ongoing professional development beyond the completion of their formal training.

Campus

Hawthorn/External Venue

Career opportunities

Counselling, psychotherapy, human resources, management.

Professional recognition

This course is accredited by Gestalt Australia and New Zealand (GANZ), and its completion counts towards GANZ Clinical Membership. Clinical Membership of GANZ entitles students to apply for registration as a counsellor with the Psychotherapy and Counselling Federation of Australia (PACFA).

Course duration

Two years part-time.

Structure

The course consists of seven subjects over two years. All subjects incorporate a combination of experiential, didactic and self-directed learning methods. Self-assessment and peer review are also common features of all subjects.

Formal class time is 2.5 to 3 hours per week per semester. Classes are held in the mornings or early evenings. In addition, there are some Saturday and weekend classes.

All subjects, except HAY445 Ethical and Professional Issues for Counsellors, are conducted at the Gestalt Institute of Melbourne, Suites 46 and 47. First Floor, 45 Riversdale Rd, Hawthorn

Course subjects

Core subjects

HAY445 Ethical and Professional Issues for Counsellors
HAGT410 Gestalt Therapy Theory
HAGT411 Therapeutic Interventions in Gestalt Therapy - Level 1
HAGT412 Therapeutic Interventions in Gestalt Therapy - Level 2
HAGT422 Assessment, Mental Health and Gestalt Therapy,
and
HAGT420 Therapy Skill Development: Theory and Practice (Clinical Stream)
Therapy eg. Certificate in Gestalt Therapy.
The program provides knowledge and skills in research, policy development and
This program is designed for people working in the public and community housing
The formal objectives of the course are:

- To develop a client value based management culture in the delivery of housing assistance.
- To promote transferable communication skills - analytical, written and technological.
- To enhance portable research, discovery and information retrieval skills
- To promote an array of transferable problem solving, organisational and
management skills in the specialised area of housing assistance.
- To facilitate technical competence in the management of a housing service.
- To link the formal training offered by this course with training in the work setting.

Campus
Distance Education

Career opportunities
Graduates will be able to move between community and public sectors as a result of skill and knowledge acquired.

Course duration
Graduate Certificate: two years part-time.
Graduate Diploma: three years part-time
Masters: four years part-time.

Structure
This is a nested suite of programs. It is styled on a '4+2+2' basis. Students who
have successfully completed the three core subjects plus one elective will receive
the Graduate Certificate. The Graduate Diploma requires a further two subjects plus a research report. On successful completion of the Graduate Diploma a student may apply to undertake the Masters degree. The Masters requires a further two subjects plus a minor thesis.

This self-paced distance education program is tutored by a team of some of the most experienced urban and housing academics and practitioners in Australia. Each subject is taught over a semester and each week the workload will involve approximately three hours reading of notes, two to three hours of reference reading, and additional time for exercises.

Single subjects
Students may choose to do a single subject. Students may only enrol in one single subject per course, and the fee is $900 per subject. Should a student decide to consolidate a single subject into an accredited program, full course fees will apply and an additional charge of up to $350 per subject will be made. On completion of the subject students will receive a pass or fail and statement of completion.

Course subjects
Graduate Certificate
HAS485 The Australian Housing System
HAS486 Housing Policy and Research
HAS487 Housing Management and Administration

Plus one of:

HAS488 Housing Economics and Finance, OR
HAS489 Issues in Housing Provision, OR
HAS493 Property Management

Graduate Diploma
HAS485 The Australian Housing System
HAS486 Housing Policy and Research
HAS487 Housing Management and Administration
HAS488 Housing Economics and Finance

Plus two of:

HAS489 Issues in Housing Provision
HAS490 Commercialisation of Public Enterprise
HAS491 Comparative Social Policy
HAS493 Property Management
And a Research Report

Masters
HAS485 The Australian Housing System
HAS486 Housing Policy and Research
HAS487 Housing Management and Administration
HAS488 Housing Economics and Finance
HAS489 Issues in Housing Provision
HAS493 Property Management

Plus two of:

HAS490 Commercialisation of Public Enterprise
HAS491 Comparative Social Policy
HAS492 Urban Social Theory
And a Minor Thesis

Entry requirements
Applicants should have at least five years appropriate work experience in housing management and administration, or in a related area such as social and community sector, public administration, local government, or private real estate and property development. Applicants without work experience are also eligible if they have an appropriate degree such as Humanities, Social Science, Business, Architecture or Planning.

Application procedure
Application forms are available from the Institute for Social Research or online at: www.sisr.net/housing/housing/application.htm
Sponsored applicants should provide their details to their funding organisation.

Further information
Contact the Institute for Social Research on +61 3 9214 5566
Email: isr@swin.edu.au
Website: www.sisr.net/housing/housinghome.htm

HUMAN SERVICES – COUNSELLING

N0805 Graduate Diploma of Social Science
(Human Services - Counselling)

The Graduate Diploma of Social Science (Human Services - Counselling) is designed to provide training in counselling for people either working, or interested in working, in the human service industry, e.g. health, education, community welfare or human resource management. Within these industries there is a growing demand for people with effective interpersonal communication skills who can provide both individual counselling and group programs at a professional level.

The course provides a broad based approach to counselling, with a focus on skills acquisition and application to a variety of work settings. The program is practical rather than theoretical and deals with a number of important social and cultural factors that impact on work and human relationships.

Aims & Objectives
This course is designed to provide:
- Training in basic counselling theory and skills applicable to individuals, couples, families and groups.
- An introduction to the ethical dilemmas faced and ethical conduct required by counsellors in the human services industry.
- An understanding of the special needs of particular population groups and assessment issues such as suicide and risk of danger, child abuse, psychiatric disturbance and the use of available social supports and community resources.
- Advanced counselling skills.
- Practical experience, through either work based placements or special application training courses, tailored to the requirements of individual students.

Campus
Hawthorn

Career opportunities
The course is primarily designed to give people counselling skills to use within the human services industry in which they may already be employed (eg health, education, pastoral care, welfare etc). For this reason, selection is biased towards those already working within such industries.

Professional recognition
The Psychotherapy and Counselling Federation of Australia (PACFA) has a set of training standards and an ethical code which are followed and met by this course, however, PACFA has not yet been involved in formally accrediting courses.

Course duration
Two years (four semesters) part-time.

Structure
The program comprises six subjects: four core subjects and two special application subjects. The core subjects (two per semester) are taken in semesters one and three of the program. The special application subjects are offered in semesters two and four of the program.

Each coursework subject involves two or three hours per week of class attendance. Special application subjects alternate in availability from year to year.

Students may be able to substitute supervised workplace experience placements for the special application subjects, by individual arrangement and approval with the course coordinator.

Course subjects
Year 1
Semester 1
HAY444 Foundations of Counselling
HAY445 Ethical and Social Issues for Counsellors
Semester 2
HAY446 Special Application Subject: Trauma, Loss and Grief, OR
HAY449 Special Application Subject: Addiction Counselling, OR
HAY450 Supervised Practice A

Year 2
Semester 1
HAY447 Issues for Special Population Groups
HAY446 Advanced Counselling, Assessment and Behaviour Change
Semester 2
HAY448 Special Application Subject: Trauma, Loss and Grief, OR
HAY449 Special Application Subject: Addiction Counselling, OR
HAY451 Supervised Practice B

Entry requirements
A degree from a recognised tertiary institution or approved equivalent. Selection is biased towards applicants currently working in human services industries.

Application procedure
Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.
Applicants who are short-listed for selection will be required to attend an interview.

Further information
Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

INTEGRATIVE MEDICINE

GSIM1 Graduate Certificate of Applied Science
(Integrative Medicine)
GSIM2 Graduate Diploma of Applied Science
(Integrative Medicine)

This program is designed to provide a general introduction to a number of different complementary therapies. On completion of the Graduate Diploma medical practitioners will have a basic knowledge of each therapy. They will also be in a position to select a therapy for more intensive study at a later stage. Opportunities will be available for students to conduct research projects within a Masters course or at a PhD level. The selection of complementary therapy research will be based on intensive examination of the scientific evidence in each area in order to identify promising lines of inquiry. The guarantee of scientific validity of the Graduate School's research comes from a commitment to rigorous scientific method at all times.
This course is available on-campus, by Distance Education, or Online. The 'on-campus' program is described here; for further information on the Distance and Online program, refer to our website at: www.swin.edu.au/gsim/online/online.htm

**Campus**
Hawthorn, Online, Distance Education

**Professional recognition**
The Royal Australian College of General Practitioners (RACGP) has allocated CME points in the QA&CE Program for each subject in this course.

**Course duration**
While it is anticipated that the programs will in most cases be self-paced, it is expected that the Graduate Certificate could be completed in one year part-time (50 credit points) and the Graduate Diploma could be completed in two years part-time (100 credit points).

**Structure**
All the component subjects in the Graduate Certificate/Diploma can be taken as single subjects, or as a combination of single subjects. Subjects run for either 4 weeks (10 credit points) or 8 weeks (20 credit points) with 5 contact hours per week. The completion of each subject accumulates credit towards a qualification. The Graduate Diploma requires the successful completion of the subjects listed below (100 credit points). Alternatively, students may choose to leave with a Graduate Certificate after the accumulation of 50 credit points.

**Course subjects**

- **HIM101** Introduction to Complementary Medicine (10 credit points)
- **HIM102** Introduction to Nutritional and Environmental Medicine (20 credit points)
- **HIM202** Introduction to Musculoskeletal/Physical Medicine and Sports Medicine (20 credit points)
- **HIM203** Introduction to Acupuncture (10 credit points)
- **HIM204** Introduction to Herbal Medicine (20 credit points)
- **HIM205** Introduction to Mind/Body Medicine (20 credit points)

**Entry requirements**
Applicants will normally have completed an undergraduate degree in medicine or an approved equivalent. Consideration may be given to applicants with other degrees in the health sciences if places are available.

**Application procedure**
Direct application to the School should be made on the relevant form available from the School Administrator.

**Further information**
Contact the Graduate School of Integrative Medicine on: +61 3 9214 5463
Email: gsim@swin.edu.au
Website: www.swin.edu.au/gsim/

**NUTRITIONAL & ENVIRONMENTAL MEDICINE**

- **GSIM3** Graduate Certificate of Applied Science (Nutritional and Environmental Medicine)
- **GSIM4** Graduate Diploma of Applied Science (Nutritional and Environmental Medicine)

The emphasis of the course is on the principles and practical application of nutritional and environmental medicine to common clinical problems. Currently, very little clinical nutrition is taught within Australian medical schools. Opportunities will be available for students to conduct research projects within a masters course or at a PhD level. The selection of nutritional and environmental medicine research will be based on intensive examination of the scientific evidence in each area, in order to identify promising lines of inquiry. The guarantee of scientific validity of the Graduate School's research comes from a commitment to rigorous scientific method at all times.

**Course subjects**

- **HIM101** Introduction to Nutritional and Environmental Medicine
- **HNE101** Introduction to Nutritional and Environmental Medicine
- **HNE102** Biology of Nutrients
- **HNE203** Nutrient Therapy in Toxicology and Skin Problems
- **HNE204** Environmental Medicine
- **HNE205** Nutritional Approaches to Neurological and Degenerative Disorders and Ageing Problems
- **HNE206** Nutritional Approaches to Cardiovascular and Respiratory Problems
- **HNE207** Nutritional Approaches to Gastrointestinal Problems and Behavioural Problems
- **HNE208** Nutritional Approaches to Women's Health and Paediatric Problems
- **HNE209** Nutritional Approaches to Men's Health and Endocrine Problems
- **HNE210** Nutritional Approaches to Musculoskeletal Problems and Sports Nutrition

**Entry requirements**
Applicants will normally have completed an undergraduate degree in medicine or an approved equivalent. Consideration may be given to applicants with other degrees in the health sciences if places are available.

**Application procedure**
Direct application to the School should be made on the relevant form available from the School Administrator.

**Further information**
Contact the Graduate School of Integrative Medicine on:
Telephone: +61 3 9214 5463 or +61 5 9214 5296
Email: gsim@swin.edu.au
Website: www.swin.edu.au/gsim/

**PRE AND POST NATAL FAMILY SUPPORT**

- **0046PNFS** Graduate Certificate in Social Science (Pre Natal and Post Natal Family Support)

The purpose of this course is to provide participants with the knowledge and skills to provide effective support to families during the pre and postnatal period, while broadening the skills they have already gained in undergraduate programs and workplace experiences.
Campus
Prahran

Career opportunities
Graduates of this course are sought for employment in agencies working with infants and families such as family support centres, parent and baby units, and also in private homes. The qualification may also lead to opportunities to work in maternity hospitals or other organisations working with newborns and their families.

Course duration
One year part-time.

Structure
The course consists of four modules with a workplace learning component. The course requires participants to conduct off-campus research. Classes will be held one evening per week commencing February, from 6:30 to 9:30 pm at the Prahran campus. Some Saturday sessions will be scheduled each semester.

Course subjects
- **D0046FS1** Support the Pre and Post Natal Needs of the Newborn and Mother
- **D0046FS2** The Diverse Needs and Issues for Families in their Parenting Role in the Pre and Post Natal Period
- **D0046FS3** Communication with parents, other extended family and other health professionals
- **D0046FS4** Short and Long Term Care Planning

Entry requirements
Applicants will normally require professional qualifications in the children's services area at diploma or degree level or equivalent. Critical reflection, analysis and research skills are also necessary to meet the requirements of the course. Applicants will also be required to demonstrate academic and interpersonal skills adequate for postgraduate studies in social and community services.

Application procedure
Applicants should apply directly to the Department of Child & Family Studies on (03) 9214 6863 to obtain an application form.

Further information
Contact the Department of Child & Family Studies on (03) 9214 6863
Website: www.tafe.swin.edu.au/csh/index.htm

PSYCHOLOGY

L083 Graduate Diploma of Social Science (Psychological Studies)

This postgraduate program provides students with an introduction to psychology at three levels. At the first level, students are introduced to a range of topics in psychology and experimental design and analysis. At the second and third level, attention is also given to vocational skills and knowledge relevant to applied fields.

Aims & Objectives
The course aims to:
- Provide an opportunity for students who have a degree in another discipline to study Psychology without having to do an entire second degree.
- Provide an opportunity for students to gain basic knowledge in Psychology and to apply this knowledge in their current profession.
- Open the possibility for students to change their career and become a Psychologist. This award is the first step along this path.

This course enables students to learn about:
- Human behaviour and performance.
- How to formulate research questions, collect, analyse and interpret research data, and to write research reports.
- Psychology as a profession.

L083 (Psychological Studies)

Introduction to Psychology 1
Introduction to Psychology 2
Statistics and Research Methods
Cognition and Human Performance
Developmental Psychology
Design and Measurement 2
Design and Measurement 3
The Psychology of Personality
Psychological Measurement
Abnormal Psychology
Social Psychology

Entry requirements
A degree (other than psychology) from a recognised tertiary institution or an approved equivalent.

Application procedure
Applications must be made direct to Swinburne Lilydale.

Further information
Contact Swinburne Lilydale +61 3 9215 7000

N0812 Postgraduate Diploma of Psychology

The course is designed for students who have completed a first degree with a three-year major sequence of studies in psychology, in a course (or courses) approved by the Australian Psychological Society. The program is intended to complete students' foundation studies in psychology as a science and profession. The course is designed to prepare students to enter the profession by meeting the educational requirements for registration as a probationary psychologist and for Associate Membership of the Australian Psychological Society. The course ensures that all students develop basic competencies in research design and analysis, and an understanding of the ethical, legal and social responsibilities of psychologists engaged in social and applied research and professional practice. Students are also expected to acquire advanced knowledge in several areas of psychology. It is expected that students have basic competence in computer and keyboard skills, including familiarity with SPSS. Students may explore topics of particular interest by choosing elective subjects.
Aims & Objectives
The course has the following objectives:

- To enable students to understand and apply psychological principles in practical settings.
- To enable students to acquire knowledge of social and behavioural science research design and analysis.
- To extend skills in formulating research problems, gathering and analysing data, interpreting and communicating research findings.
- To enable students to acquire advanced knowledge in selected topic areas within psychology and applied psychology, building upon and extending basic undergraduate preparation.
- To provide students with an understanding of the nature of psychology as a profession, the ethical, legal and social responsibilities of the psychologist, and the role of the Registration Boards and the Australian Psychological Society.
- To prepare students for entry level work as psychologists-in-training under supervision in occupational fields such as applied social research, the human services, and human resources.

Campus
Hawthorn

Career opportunities
Psychologists work in a wide range of areas including the helping professions, training and human resource management.

Professional recognition
Associate Membership of the Australian Psychological/Society, registration as a Probationary Psychologist with the Psychologists Registration Board of Victoria. This course is recognised and accredited by the Australian Psychological Society as a fourth year of study in Psychology.

Course duration
One year full-time or two years part-time

Structure
The course can be completed in one year of full-time study extending across two semesters. In the first semester students are involved in approximately twelve hours of class contact time per week. In the second semester students are involved in approximately five hours of weekly class time. Students also consult regularly with an academic supervisor about their research project.

The course can also be completed in two years of part-time study extending over four semesters. In the first semester students are involved in approximately six hours of class contact time per week, five hours in second semester, six hours in third semester, and no class contact in fourth semester. Students are also involved in regular consultations with an academic supervisor about their research project.

Course subjects
Core Subjects
HAY452 Thesis A
HAY453 Advanced Quantitative Methods
HAY454 Psychological Assessment
HAY456 Thesis B
HAY457 Ethical and Professional Issues

Elective Subjects
HAY455 Applied Social Psychology (subject to availability)
HAY458 Counseling Psychology

Entry requirements
A degree from a recognised tertiary institution (or approved equivalent) with a major in Psychology approved by the Australian Psychological Society.

Credit transfer
Credits may be transferred from other APS accredited fourth year courses in Psychology.

Application procedure
Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.
Non-Swinburne applicants are required to complete and lodge an additional supplementary information form.

Further information
Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

N0904 Master of Psychology in Counselling Psychology
The Master of Psychology in Counselling Psychology is designed for students who have completed a first degree and have completed a four year sequence of studies in psychology as well as having some counselling experience in an appropriate setting. The course is intended to prepare students for professional practice as counselling psychologists. The course has been granted full accreditation as a fifth and sixth year course in psychology by the Australian Psychological Society. Graduates are eligible for registration as psychologists in Victoria and membership of the Australian Psychological Society and after appropriate supervised practice, full membership of the APS College of Counselling Psychologists.

There are many applications of Counselling Psychology. The course has been designed to:

- Teach generic skills and areas of knowledge which apply across the various areas of counselling psychology practice.
- Examine selected areas of practice which exemplify the delivery of counselling related services to persons with particular needs.

Prospective students may also wish to consider the Professional Doctorate of Psychology (Counselling Psychology) program.

Aims & Objectives
Graduates will be able to:

- Assess the current level of psychosocial functioning of individuals, groups, couples and families and formulate appropriate helping interventions.
- Provide counselling help to individuals, groups, couples and families experiencing difficulties connected with relationships, education, careers, work, parenting, crises, and life-transitions.
- Evaluate and monitor the quality of helping services provided by a counselling services unit.
- Provide consulting help to individuals, organisations and community groups in relation to counselling matters.

Campus
Hawthorn

Career opportunities
Psychology Practice and related fields (Human Resources, Helping Professionals, Research).

Professional recognition
The course has been granted full accreditation as a fifth and sixth year course in psychology by the Australian Psychological Society. Graduates are eligible for registration as psychologists in Victoria, membership of the Australian Psychological Society and after appropriate supervised practice, full membership of the APS College of Counselling Psychologists.

Course duration
Four years part-time (evening program).

In exceptional circumstances, applications from international students (for two years full-time study) may be considered.

Structure
Currently, there are three course components: coursework (50%), supervised placements (25%), and an empirical research project (25%).
Four of the coursework subjects comprise advanced study in areas central to the practice of counselling psychology:

- Aspects of Professional Practice
- Diagnosis, Treatment and Referral
- Psychology of the Family
- Counselling Applications

Four of the coursework subjects comprise professional skill development training:

- Human Services Research and Evaluation
- Psychological Assessment
- Counselling Theory and Skills
- Professional, Ethical and Legal Issues

Students also participate in supervised work placements (HAY540, HAY541, HAY545) in at least three separate practice settings. Initially students are placed at the Centre for Psychological Services and following this choose two separate placements suitable in terms of their clientele and mode of service delivery.

Course subjects

**Year 1**

**Semester 1**
- HAY530 Counseling Theory and Skills
- HAY539 Psychological Assessment

**Semester 2**
- HAY532 Human Services Research and Evaluation
- HAY540 Counseling Placement A1

**Year 2**

**Semester 1**
- HAY543 Professional, Ethical and Legal Issues
- HAY549 Research Project (Counselling) A1

**Semester 2**
- HAY537 Counseling Applications
- HAY541 Counseling Placement A2

**Year 3**

**Semester 1**
- HAY535 Diagnosis, Treatment and Referral
- HAY551 Supervised Counseling Placement B1

**Semester 2**
- HAY546 Research Project (Counselling) A2
- HAY547 Psychology of the Family

**Year 4**

**Semester 1**
- HAY545 Supervised Counseling Placement B2
- HAY548 Research Project (Counselling) B1

**Semester 2**
- HAY538 Aspects of Professional Practice
- HAY550 Research Project (Counselling) B2

Entry requirements

A degree from a recognised tertiary institution (or approved equivalent) with a major in Psychology approved by the Australian Psychological Society and have completed a fourth year sequence of studies in psychology in a course or courses, also approved by the APS.

Applicants should also have experience in face-to-face counselling or have completed formal training in counselling skills (eg. Lifeline, Crisisline). Equivalent overseas qualifications will also be considered.

Application procedure

Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

Applicants who are short-listed for selection will be required to attend an interview.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: isuqns@swin.edu.au

Further information

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: ssadmin@swin.edu.au
Website: www.swin.edu.au/sbs

**N0905 Master of Psychology in Health Psychology**

The Psychology Discipline offers a Master of Psychology in Health Psychology degree program by coursework, practicum and minor thesis. Health psychologists may engage in health research, health promotion, disease prevention, health care interventions, education, rehabilitation, and public health policy formulation. The program is designed to provide a broad range of professional skills which reflect the diversity of practice in health psychology. Graduates are eligible for registration as psychologists in Victoria, membership of the Australian Psychological Society, and after appropriate supervised practice, membership of the APS College of Health Psychologists.

Prospective students may also wish to consider the Professional Doctorate of Psychology (Health Psychology) program.

**Aims & Objectives**

The objectives of the course are:

- To provide core professional skills relevant to practicing psychologists
- To provide specialist knowledge in the field of health psychology
- To provide practical experience in a variety of health-related settings.
- To consolidate research skills through the experience of conducting a research project.

Graduates will be able to:

- Engage in counselling and rehabilitation of clients with health problems.
- Train and counsel health professionals.
- Develop and deliver health promotion and education programs.
- Evaluate health care programs.
- Contribute to the formulation of public health policy.
- Consult with government, community, and business organisations.
- Conduct health-related research.

**Campus**

Hawthorn

**Career opportunities**

Psychology Practice and related fields (Health Services, Helping Professionals, Research).

**Professional recognition**

Graduates will be eligible for full registration of the Victorian Psychologists Registration Board. Graduates will also be eligible for full membership of the Australian Psychological Society and after appropriate supervised practice, full membership of the APS College of Health Psychologists.

**Course duration**

Four years part-time.

In exceptional circumstances, applications from international students (for two years full-time study) may be considered.

**Structure**

The structure of the program follows the guidelines of the Australian Psychological Society. Currently, there are three course components: coursework (50%), placements (25%) and an empirical research project (25%).

Four of the coursework subjects comprise advanced study in areas central to the practice of health psychology:

- Foundations of Health Psychology
- Culture, Gender and Health.
- Epidemiology for Health Psychologists.
- Public Health Policy.

Four of the coursework subjects comprise core skills for professional psychologists:
- Human Services Research and Evaluation.
- Counselling Theory and Skills.
- Psychological Assessment.
- Professional, Ethical and Legal Issues.

Students also engage in supervised health placements and complete a 10,000 word thesis.

**Course subjects**

**Year 1**
- **Semester 1**
  - HAY530 Counseling Theory and Skills
  - HAY539 Psychological Assessment

- **Semester 2**
  - HAY531 Foundations of Health Psychology
  - HAY532 Human Services Research and Evaluation

**Year 2**
- **Semester 1**
  - HAY533 Health Placement A1
  - HAY582 Research Project (Health) 1A

- **Semester 2**
  - HAY536 Culture, Gender and Health, CR
  - HASS01 Public Health Policy
  - HAY534 Health Placement A2

**Year 3**
- **Semester 1**
  - HAY543 Professional, Ethical and Legal Issues
  - HAY583 Research Project (Health) 1B

- **Semester 2**
  - HMS755 Epidemiology for Health Psychologists
  - HAY542 Supervised Health Placement B1

**Year 4**
- **Semester 1**
  - HAY544 Supervised Health Placement B2
  - HAY584 Research Project (Health) 2A

- **Semester 2**
  - HASS01 Public Health Policy, CR
  - HAY536 Culture, Gender and Health
  - HAY585 Research Project (Health) 2B

**Entry requirements**

A degree from a recognised tertiary institution (or approved equivalent) with a major in Psychology approved by the Australian Psychological Society and a fourth year sequence of studies in psychology in a course or courses also approved by the APS and relevant experience. Equivalent overseas qualifications will also be considered.

**Application procedure**

Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

Applicants who are short-listed for selection will be required to attend an interview.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: isuenvq@swin.edu.au

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**Further information**

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209

Email: sbsadmin@swin.edu.au

Website: www.swin.edu.au/ahs

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**HIGHER DEGREES BY RESEARCH**

**ZOO2 Doctor of Philosophy (Applied Science)**

Graduates who hold a Bachelor degree and who have shown a high standard of academic achievement in that course may be admitted to candidature for the degree of Doctor of Philosophy. The higher degree programs currently available require the presentation of a major thesis based on original research, investigation or development work, carried out either within Swinburne or externally, providing that adequate facilities and supervision can be arranged. External work can be carried out in the approved industrial, governmental, educational or research organisation.

The Statute for the degree of Doctor of Philosophy sets out the regulations governing this qualification. See website: www.swin.edu.au/sbs/tegs/phdpolicy.htm

The Institute is engaged in research to understand the relationship between cognitive processes and affective states, and the rhythms of electrical activity in the human brain.

Areas of research include:
- Brain rhythmic activity
- Functional brain imaging
- Working memory
- Attention
- Intelligence
- Psychopharmacology
- Attention deficit hyperactivity disorder
- Schizophrenia

**Aims & Objectives**

The PhD degree provides training and education with the objective of producing graduates with the capacity to conduct research independently at a high level of originality and quality. The student ought to be capable by the end of their candidature of independently conceiving, designing and carrying to completion a research program. The PhD candidate should uncover new knowledge either by the discovery of new facts, the formulation of theories or the innovative re-interpretation of known data and established ideas.

**Campus**

Hawthorn

**Career opportunities**

In the fields of neuroscience, psychology and biomedical instrumentation.

**Course duration**

The expected normal duration of candidature is 3.5 years full-time or 6 years part-time.

**Structure**

Candidates undertake their research program at the Brain Sciences Institute or other recognised institution. Candidates are expected to demonstrate satisfactory progress on an annual basis. To be assessed for a Doctor of Philosophy, candidates must present a major thesis based on original research, investigation or development work carried out under Swinburne staff supervision either at Swinburne or externally.

**Entry requirements**

Applicants should have a Bachelor’s degree with honours (1st or 2nd class) or the equivalent in a discipline appropriate to the proposed area of study. The level of academic achievement in prior studies should be of a very high standard. Other relevant activities, including work experience, may be taken into account in assessing applications.
**BSE11 Doctor of Philosophy (Biomedical Instrumentation)**

Research for the Doctor of Philosophy (Biomedical Instrumentation) is concentrated in the Centre for Biomedical Instrumentation, which provides a focus for research and consulting activities related to instrumentation for medical and physiological use.

**Campus**
- Hawthorn

**Course duration**
- Two years full-time or equivalent part-time.

**Structure**
Students generally undertake their formal and supervised research training over a period of two years full-time or four years part-time. Research can be undertaken at Swinburne, or an approved external organisation. A major thesis is the sole form of assessment for this award.

**Entry requirements**
- Students holding a bachelors degree with honours, or other qualifications deemed equivalent, are eligible for admission.

**Application procedure**
- Applications should be directed to the School of Biophysical Sciences and Electrical Engineering.

**Further information**
- Contact the School of Biophysical Sciences and Electrical Engineering
  - Telephone: +61 3 9214 8859
  - Fax: +61 3 9819 0856
  - Email: bse@swin.edu.au
  - Website: www.swin.edu.au/bioscielceng

**Z200 Master of Applied Science (by research)**

The Brain Sciences Institute offers the degree of Master (by research and thesis) on a full-time or part-time basis. The Statute for the degree of Master (by research and thesis) sets out the regulations governing this qualification. See website: www.swin.edu.au/research/welcome.htm under Research Policy. The Institute is engaged in research to understand the relationship between cognitive processes and affective states, and the rhythms of electrical activity in the human brain.

**Areas of research include:**
- Brain rhythmic activity
- Functional brain imaging
- Working memory
- Attention
- Intelligence
- Psychopharmacology
- Attention deficit hyperactivity disorder
- Schizophrenia

**Aims & Objectives**
- The Masters by Research degree generally has the objective of training students in research methodology and techniques and in their critical evaluation, appropriate to their field of study, and in the application of such methodology by conducting a specified program of research under appropriate supervision. In addition, this degree requires training in analysing the literature and debate in the substantive area of the thesis topic at an advanced level.

**Campus**
- Hawthorn

**Career opportunities**
- In the fields of neuroscience, psychology or biomedical instrumentation.

**Course duration**
- Two years full-time or equivalent part-time.

**Structure**
- Candidates undertake their research program at the Brain Sciences Institute or other recognised institution. Candidates are expected to demonstrate satisfactory progress on an annual basis. To be assessed for a Master of Applied Science, candidates must present a major thesis based on original research, investigation or development work carried out under Swinburne staff supervision either at Swinburne or externally.

**Entry requirements**
- Applicants should have at least a Bachelor's degree or the equivalent in a discipline appropriate to the proposed area of study. The level of academic achievement in prior studies must be of a high standard. Other relevant activities including work experience will be taken into account in assessing applications.

**Application procedure**
- Applicants should initially contact the Administrative Officer at the Brain Sciences Institute.

**Further information**
- Contact the Brain Sciences Institute on +61 3 9214 8794
  - Fax: +61 3 9214 5525
  - Email: bsi@bsi.swin.edu.au
  - Website: www.scan.swin.edu.au

**BSE01 Master of Applied Science (Multi-Disciplinary)**

Research for the Master of Applied Science (Multi-Disciplinary) is concentrated in the Centre for Biomedical Instrumentation, which provides a focus for research and consulting activities related to instrumentation for medical and physiological use.

**Campus**
- Hawthorn

**Course duration**
- Two years full-time or equivalent part-time.

**Structure**
- Masters students generally undertake their formal and supervised research training over a period of two years full-time or four years part-time. Research can be undertaken at Swinburne, or an approved external organisation. A major thesis is the sole form of assessment for this award.

**Entry requirements**
- Students holding a bachelors degree with honours, or other qualifications deemed equivalent, are eligible for admission.

**Application procedure**
- Applications should be directed to the School of Biophysical Sciences and Electrical Engineering.

**Further information**
- Contact the School of Biophysical Sciences and Electrical Engineering
This is a higher degree by research, incorporating coursework and professional placement components, completed over four years of full-time or eight years of part-time study. The course gives candidates the opportunity to develop professional and research skills in Counselling Psychology. The major component of the program (70%) involves a substantial research project, and reporting this research in the form of a thesis. Normally the thesis is 40,000-60,000 words in length, not including appendices and references. A research topic must be mutually agreed upon by the candidate and a member of staff in the psychology discipline who is qualified to supervise the research. There will normally be an intake of up to five new entrants each year. The School may vary the frequency of intake and the number of new entrants depending on the availability of staff to provide suitable research supervision.

Campus
Hawthorn

Career opportunities
Opportunities exist for careers in counselling psychology in hospitals, community welfare organisations, research organisations, and private practice.

Professional recognition
The DPsych (Counselling Psychology) has been granted full accreditation as a fifth and sixth year course in psychology by the Australian Psychological Society (APS). The DPsych (Counselling Psychology) is approved by the APS College of Counselling Psychologists.

Course duration
Four years full-time or eight years part-time.

Structure
Candidates undertaking the DPsych (Counselling Psychology) program will complete the coursework components of the Master of Psychology in Counselling Psychology course at an advanced level in addition to 1500 hours of placement and their major thesis. Graduates will be highly skilled in research and professional practice in the area of counselling psychology.

Full-time Program Structure

Year 1
Semester 1
HAY630 Counselling Theory and Skills
HAY639 Psychological Assessment
HAY648 Research Project (Counselling) A

Year 2
Semester 1
HAY632 Human Services Research and Evaluation
HAY640 Counselling Placement A1
HAY649 Research Project (Counselling) B

Semester 2
HAY635 Diagnosis, Treatment and Referral
HAY643 Professional, Ethical and Legal Issues
HAY650 Research Project (Counselling) C

Year 3
Semester 1
HAY646 Supervised Counselling Placement B1
HAY652 Research Project (Counselling) E

Semester 2
HAY638 Aspects of Professional Practice
HAY645 Supervised Counselling Placement B2
HAY647 Psychology of the Family
HAY653 Research Project (Counselling) F

Year 4
Semester 1
HAY654 Research Project (Counselling) G
Semester 2
HAY655 Research Project (Counselling) H

Part-time Program Structure

Year 1
Semester 1
HAY630 Counselling Theory and Skills
HAY657 Research Project (Counselling) A1

Semester 2
HAY639 Psychological Assessment
HAY659 Research Project (Counselling) B1

Year 2
Semester 1
HAY640 Counselling Placement A1
HAY660 Research Project (Counselling) B2

Year 3
Semester 1
HAY643 Professional, Ethical and Legal Issues
HAY661 Research Project (Counselling) C1

Semester 2
HAY641 Counselling Placement A2
HAY662 Research Project (Counselling) C2

Year 4
Semester 1
HAY635 Diagnosis, Treatment and Referral
HAY663 Research Project (Counselling) D1

Semester 2
HAY637 Counselling Applications
HAY664 Research Project (Counselling) D2

Year 5
Semester 1
HAY646 Supervised Counselling Placement B1
HAY665 Research Project (Counselling) E1

Semester 2
HAY647 Psychology of the Family
HAY666 Research Project (Counselling) E2

Year 6
Semester 1
HAY667 Research Project (Counselling) F1
Semester 2
HAY645 Supervised Counselling Placement B2
HAY668 Research Project (Counselling) F2

Year 7
Semester 1
HAY669 Research Project (Counselling) G1

Semester 2
HAY638 Aspects of Professional Practice
HAY670 Research Project (Counselling) G2

Year 8
Semester 1
HAY671 Research Project (Counselling) H1

Semester 2
HAY672 Research Project (Counselling) H2

Note: Subject availability may vary slightly from year to year due to timetable constraints.

Entry requirements
Applicants must hold a first or upper second class honours degree in psychology from a recognised Australian university (or hold qualifications deemed equivalent by the University's Higher Degree Committee) and be eligible for Associate Membership of the Australian Psychological Society. Professional experience and research skills will be considered in the selection process.

Application procedure
Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

Applicants who are short-listed for selection will be required to attend an interview.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information
Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

N009 Professional Doctorate of Psychology (Health Psychology)

This is a higher degree by research, incorporating coursework and professional placement components, taken over four years full-time or eight years part-time study. The course gives candidates the opportunity to develop professional and research skills in Health Psychology. The major component of the program (70%) involves the student undertaking a substantial research project, and reporting this research in the form of a thesis. Normally the thesis is 40,000-60,000 words in length, not including appendices and references. A research topic must be mutually agreed upon by the candidate and a member of staff in the psychology discipline who is qualified to supervise the research. There will normally be an intake of up to five new entrants each year. The School may vary the frequency of intake and the number of new entrants depending on the availability of staff to provide suitable research supervision.

Campus
Hawthorn

Career opportunities
Opportunities exist for careers in health psychology in hospitals, community welfare organisations, research organisations and private practice.

Professional recognition
The DPsych (Health Psychology) has been granted full accreditation as a fifth and sixth year course in psychology by the Australian Psychological Society (APS). The DPsych (Health Psychology) is approved by the APS College of Health Psychologists.

Course duration
Four years full-time or eight years part-time.

Structure
Candidates undertaking the DPsych (Health Psychology) program will complete the coursework components of the Master of Psychology in Health Psychology course at an advanced level, in addition to 1500 hours of placement and their major thesis. Graduates will be highly skilled in research and professional practice in the area of health psychology.

Full-time Program Structure
Year 1
Semester 1
HAY630 Counselling Theory and Skills
HAY639 Psychological Assessment
HAY674 Research Project (Health) 1

Semester 2
HAY631 Foundations of Health Psychology
HAY632 Human Services Research and Evaluation
HAY675 Research Project (Health) 2

Year 2
Semester 1
HAY633 Health Placement A1
HAY643 Professional, Ethical and Legal Issues
HAY676 Research Project (Health) 3

Semester 2
HAY636 Culture, Gender and Health, or IASS01 Public Health Policy
HAY634 Health Placement A2
HAY677 Research Project (Health) 4

Year 3
Semester 1
HAY695 Supervised Health Placement B1
HAY678 Research Project (Health) 5

Semester 2
HMS755 Epidemiology for Health Psychologists
HAY696 Supervised Health Placement B2
HAY679 Research Project (Health) 6

Year 4
Semester 1
HAY680 Research Project (Health) 7

Semester 2
IASS01 Public Health Policy or HAY636 Culture, Gender and Health
HAY681 Research Project (Health) 8

Part-time Program Structure
Year 1
Semester 1
HAY630 Counselling Theory and Skills
HAY639 Psychological Assessment

Semester 2
HAY631 Foundations of Health Psychology
HAY682 Research Project (Health) 1A

Year 2
Semester 1
HAY643 Professional, Ethical and Legal Issues
HAY683 Research Project (Health) 1B

Semester 2
HAY632 Human Services Research and Evaluation
HAY684 Research Project (Health) 2A
### Multimedia

#### Year 3

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### Entry requirements

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### Application procedure

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Applicants who are short-listed for selection will be required to attend an interview.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

### Further information

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209

Email: sbsadmin@swin.edu.au

Website: www.swin.edu.au/sbs

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### Multimedia

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### Entry requirements

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International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

### Further information

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209

Email: sbsadmin@swin.edu.au

Website: www.swin.edu.au/sbs
Part-time Master of Multimedia Students are recommended to replace HET811 Multimedia Project with the combination HET910 Multimedia Project Design and HET911 Multimedia Project Production.

Entry requirements
A qualification from a recognised tertiary institution or approved equivalent.

Application procedure
International students should contact the International Student Unit on +61 3 9214 8847 or via Email: intl-admissions@swin.edu.au

Further information
Contact the School of Biophysical Sciences and Electrical Engineering
Telephone: +61 3 9214 8859
Fax: +61 3 981 9 0856
Email: base@swin.edu.au
Website: www.swin.edu.au/bioscieleceng/multimedia/index.html

SOCIAL SCIENCE AND ARTS

APPLIED MEDIA

N070  Graduate Certificate of Arts (Applied Media)
N0804  Graduate Diploma of Arts (Applied Media)

The Applied Media program is designed to provide both a theoretical base and a portfolio of skills applicable to a wide range of media activities. It is aimed at both developing the skills of people interested in working in media related industries, and enhancing the expertise of people already working in the media.

Aims & Objectives
- To provide knowledge of and experience in the production of a range of traditional and new media.
- To provide experience in the presentation and marketing of media production.
- To introduce students to the changing face of media culture and the new technologies electronic media.
- To equip students with the skills to develop a substantial media production.

Career opportunities
The Applied Media program provides a broad range of writing and production skills valued in many sectors of the print, broadcasting and electronic media, such as radio production, journalism and information technology. Graduates will be equipped with the kind of digital technology skills likely to be sought after by software developers working in the multimedia industry.

Course duration
Graduate Certificate: one year (two semesters) part-time.
Graduate Diploma: one year full-time or two years part-time.

Structure
The Graduate Diploma in Applied Media is a nested program incorporating the Graduate Certificate in Applied Media. Students who successfully complete the one core subject and two elective subjects may exit the program with the Graduate Certificate qualification, or progress to the Graduate Diploma. To achieve the Graduate Diploma, students must satisfactorily complete six subjects: both core subjects and four elective subjects. The two core subjects involve two hours per fortnight over two semesters. Each elective subject involves three hours of coursework per week per semester.
Apart from formal class time, candidates are expected to spend a minimum of the equivalent class contact hours per week in private study and/or team project work. Both core units and most elective units are offered in the evening from 6.00pm-9.00pm.

Course subjects

Core Subjects
Graduate Certificate students choose one subject and Graduate Diploma students complete both.

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HAM400</td>
<td>Media Work Experience/Placement</td>
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<tr>
<td>HAM412</td>
<td>Media Project (recommended for Graduate Certificate students)</td>
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</table>

Elective Subjects
Graduate Certificate students choose two subjects and Graduate Diploma students choose four.

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<td>HAM402</td>
<td>Radio Production and Criticism</td>
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<td>HAM410</td>
<td>Electronic Writing</td>
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<td>HAM411</td>
<td>Globalisation: Media and Telecommunications</td>
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<td>HAM413</td>
<td>Multimedia:Authoring I</td>
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<td>HAM414</td>
<td>Multimedia:Authoring 2</td>
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<td>HAM424</td>
<td>New Media Production</td>
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<tr>
<td>HAM425</td>
<td>Key Cultural Issues in Media and Communication</td>
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<tr>
<td>HAM426</td>
<td>Communication Environments</td>
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Entry requirements
A degree from a recognised tertiary institution or other qualifications or experience which, in the opinion of the Selection Committee, are of a satisfactory standard and are suitable preparation for entry to the program. Students are expected to be computer literate and to have Internet access outside of Swinburne.

Application procedure
Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

Further information
Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

COMMERCIAL RADIO

N061 Graduate Diploma of Arts (Commercial Radio)

This course is designed for people who wish to pursue a career in commercial radio broadcasting. Students receive two semesters of intensive tuition in all aspects of commercial radio operations, with practical training in announcing and news presentation. Other areas covered include voice training, production, copywriting, news writing and presentation, sales and marketing, promotions, music and programming, radio station management and computing skills.

Broader issues are introduced including broadcasting ethics and codes of practice, media law and ownership, the impact of information technologies and audience research. There is a strong focus on digital audio processing and control systems, using extensive computing facilities in studios and production areas.

An industry placement program places students into commercial radio stations across Australia as announcers, journalists, creative writers, promotion assistants, sales executives, scheduling, production managers and music directors. Every assistance is provided to place graduates in the workforce. No guarantees of employment can be given, however, the skills gained and the contacts made during the course should place participants in an excellent position to secure employment in the commercial radio industry. The Federation of Australian Radio Broadcasters (FARB) offers every possible assistance with placement to graduates.

Professional recognition
The Graduate Diploma in Commercial Radio has the full support of the Federation of Australian Radio Broadcasters (FARB) and the industry is actively involved in lectures, seminars and workshops.

Course duration
One year (two semesters) full-time.

Structure
Students undertake eight subjects over two semesters.

Course subjects

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<td>HAM442</td>
<td>Radio Presentation</td>
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<tr>
<td>HAM443</td>
<td>Radio Journalism</td>
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<td>HAM444</td>
<td>Radio Marketing and Promotions</td>
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<td>HAM445</td>
<td>Radio Advertising Copywriting</td>
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<tr>
<td>HAM446</td>
<td>Radio Production</td>
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<td>HAM447</td>
<td>Radio Broadcasting Practice</td>
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<tr>
<td>HAM448</td>
<td>Radio Industry Placement</td>
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</table>

Entry requirements
A degree from a recognised tertiary institution or approved equivalent. Special entry is available to applicants who have not completed an undergraduate degree but have substantial experience in radio or related media industries. The minimum age for applicants is 18 years, although applicants younger than this with special abilities may be considered. The personal qualities sought in applicants are a clear intention and desire to make Commercial Radio a career, an ability to communicate effectively and an ability to work co-operatively in a group. A clear speaking voice is essential. Writing skills and an appreciation of language, together with creative ideas and a knowledge of current affairs, would provide an ideal background for participants.

Experience in a radio station, whether commercial, community or school-based, would provide evidence of a desire for a radio career. An understanding of the broadcast industry would be an advantage.

Application procedure
Applications are invited from residents of all States and Territories of Australia. Application forms can be downloaded from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

Further information
Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

COMMUNICATIONS

N095 Master of Arts (Communications)

This program offers graduates from all fields of study, media and communication personnel and international students an advanced course in the field of media and telecommunications. It provides students with specialised knowledge at the cutting edge of communications culture, improved research capabilities, and development of a range of applied communications skills.
Aims & Objectives

The course aims to provide:

- Theoretical and conceptual approaches to fields of debate in communication studies and the enhancement of practical skills.
- Exploration of subjects, research and production approaches highly relevant to contemporary society.
- Flexibility in terms of choice across streams of media and telecommunications policy analysis, cultural theory and textual analysis, production, writing and journalism, new communications technology and marketing.
- A breadth of expertise which students can utilise in applied field work, for themselves, or with an employer.
- Good opportunities for close liaison with industry personnel, including course presentations by industry specialists and industry based research.

Campus

Hawthorn

Career opportunities

Graduates find employment in media, information technology and telecommunications companies, as well as policy, advertising and education.

Course duration

One and a half years full-time or three years part-time.

Structure

The Masters degree consists of four subjects including two compulsory core subjects, plus a minor thesis. Each subject involves three hours of coursework per week for one semester. A minor thesis of 20,000 words or equivalent is to be undertaken after the successful completion of four coursework subjects.

Course subjects

Core subjects

HAM500  Globalisation: Media and Telecommunications
HAM517  Cultural Convergence
And two of:
HAM504  Professional Production
HAM505  Workplace Practice
HAM514  Multimedia Authoring 1
HAM515  Multimedia Authoring 2
HAM516  Electronic Writing
HAM524  New Media Production
HAM525  Key Cultural Issues in Media and Communication
HAM526  Communication Environments
Also:
HAM506  Thesis (Part-time for two semesters), OR
HAM507  Thesis (Full-time for one semester)

Entry requirements

Applicants should hold a fourth year or equivalent degree from a recognised tertiary institution, or have such other qualifications or industry experience, which in the opinion of the Selection Committee, are of a satisfactory standard and are suitable preparation for entry into the program.

Application procedure

Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

International students should contact the International Student Unit on +61 3 9214 8647 or via Email: intl-admissions@swin.edu.au

Further information

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Website: www.swin.edu.au/sbs

TECHNICAL COMMUNICATION

N0750  Graduate Certificate of Social Science (Technical Communication)
N0850  Graduate Diploma of Social Science (Technical Communication)

Technical communicators are specialists who produce clearly written well-structured documents relating to complex concepts and products, including computer software. The Graduate Certificate and Graduate Diploma of Social Science (Technical Communication) are designed to give students a broad understanding of the field. The program provides a strong grounding in analytical skills and practical competencies across a range of media, both paper and on-line. It will also give students project management skills and the ability to contribute to product and document development.

The courses are designed to develop the understanding and skills of students new to technical communication, as well as to enhance the expertise of people already working in the field. The courses have been developed in association with the Australian Society for Technical Communication (ASTC[Vict] Inc.)

Aims & Objectives

Students will learn:

- The role of technical communicators
- Strong written and verbal communication skills
- Clear and practical ways to approach technical communication assignments
- Excellent writing and editing skills
- Analytical and problem-solving skills
- How to create online Help and other technical documents
- Web design and content management
- How to enhance product design and usability
- Project management skills.

As part of their coursework, students will develop a folio of work to take to job interviews.

Campus

Hawthorn

Career opportunities

The Technical Communication program provides a broad range of skills valued by employers across a range of industries, sectors and departments including:

- Software and hardware development
- Forestry, mining and other primary industries
- Finance
- Law
- Infrastructure departments
- Publishing
- Management consultancy
- Department of Defence.

Technical communicators with project management skills are particularly valued.

For further information on career opportunities visit the ASTC website: www.astcvic.org.au

Professional recognition

The Graduate Certificate and Graduate Diploma of Social Science (Technical Communication) have been developed in close consultation with the ASTC and have their support.

Course duration

Graduate Certificate: one year part-time.
Graduate Diploma: two years part-time.

Structure

The Technical Communication program incorporates the Graduate Certificate. Students who successfully complete the Graduate Certificate may exit the program with that qualification, or progress to the Graduate Diploma. Students
normally enrol for two subjects per semester on a part-time basis. Each semester is of 12 weeks duration. Classes will normally be offered in the evening.

Course subjects

Year 1 (Graduate Certificate and Graduate Diploma)

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>HATC410</td>
<td>Effective Communication</td>
</tr>
<tr>
<td>HATC411</td>
<td>Developing Technical Documents</td>
</tr>
<tr>
<td>HATC412</td>
<td>Software for Technical Communicator.</td>
</tr>
<tr>
<td>HATC413</td>
<td>Developing Online Help</td>
</tr>
</tbody>
</table>

Year 2 (Graduate Diploma)

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAM424</td>
<td>New Media Production</td>
</tr>
<tr>
<td>HATC420</td>
<td>Developing Web Sites</td>
</tr>
<tr>
<td>HATC421</td>
<td>Usability</td>
</tr>
<tr>
<td>HATC422</td>
<td>Managing a Documentation Project</td>
</tr>
</tbody>
</table>

Entry requirements

A degree from a recognised tertiary institution or at least two years relevant industry experience, which the Selection Committee deems to be of a satisfactory standard for entry into the program. Applicants in this category are required to submit an example of their industry work.

All applicants are required to submit a resume, including at least two academic or professional referees.

Application procedure

Application forms can be obtained by downloading from the web at www.swin.edu.au/postgrad or by contacting the School of Social and Behavioural Sciences.

Further information

Contact the School of Social and Behavioural Sciences on +61 3 9214 5209
Email: sbsadmin@swin.edu.au
Web site: www.swin.edu.au/sbs

WRITING

L071  Graduate Certificate of Arts (Writing)
L079  Graduate Diploma of Arts (Writing)
L084  Master of Arts (Writing)

The rapid pace of change in the ways in which information is accessed, utilised and converted into knowledge means that there is a growing need for graduates with both traditional and electronic professional and creative writing skills. The aim of Lilydale’s Arts (Writing) courses is to draw together print and online media, while exploring the local and global opportunities of electronic media.

The Writing suite of courses builds on the expertise of the Lilydale campus in areas including: electronic writing; information management; communications and writing for learning technologies. These courses will give students access to the best materials in print and online as well as to experts in their field. Students will be supported by online mentors and tutors.

Aims & Objectives

The aims of the Masters in Writing are to:

- Enable writing skills, whether professional or creative, to be understood, developed and implemented.
- Draw together print and performance-based texts with the local and global opportunities of electronic media.
- Provide both traditional and electronic professional and creative writing skills.
- Enable students to develop content for business and creative purposes and for print and online deliveries.
- Give students access to the best materials in print and online as well as to experts in their field.

These courses have the objectives of:

- Drawing together students’ professional lives with the writing qualification. Through developing their own folios, students will be able to utilise their area of interest, whether it be Business Writing (such as planning for setting up a small business or writing a report); Curriculum Writing (such as teaching statistics or developing online materials for learning and teaching), Research Writing, such as collecting and utilising data and writing a refereed article) or Creative Writing (such as poetry or scriptwriting).
- Enriching genre writers with knowledge and insights of other genres which they might practise, or which might be applied to their traditional writing domains.
- Enabling students to understand and apply critical and cultural theories on textuality and discourse.

Campus

Lilydale. Online, Distance Education.

Course duration

Graduate Certificate: one semester full-time (144 hours) or two semesters part-time.
Graduate Diploma: two semesters full-time or four semesters part-time.
Master: three semesters full-time or six semesters part-time.

Structure

The Masters in Arts (Writing) incorporates the Graduate Certificate and Graduate Diploma in Writing. The Masters continues on from the Graduate Certificate and Graduate Diploma levels and consists of a further 4 subjects (750 credits) including the core subject LPW700 The Writerly Self. Each subject is worth 12.5 credit points except for LPW701 Publication Folio which is worth 25 credit points.

In summary, to complete the Masters of Arts (Writing), a total of 12 subjects, worth 150 credit points. must be completed. The course is delivered entirely online and is supported with virtual tutors and tutorials, print materials, web sites and CD Roms.

Course subjects

Graduate Certificate

LPW500  Critical Friends: The real and virtual support of writers (Core)
LPW501  Journalism
LPW502  Research to Publication
LPW503  Writing for Cybermedia

Graduate Diploma

LPW600  Reading and Writing (Core)
LPW601  Creative and General Writing for Publication
LPW602  Writing Family Histories
LPW603  Script Adaptation: Stage, Screen, Multimedia
LPW604  Online Writing

Masters

LPW700  The Writerly Self (Core)
LPW701  Publication Folio (25 credit points)
LPW702  Publication: Presenting your work to an audience
LPW703  Electronic Writing
LPW704  Script Writing

Entry requirements

An appropriate honours degree or a 4 year undergraduate degree or equivalent. Applicants with an appropriate postgraduate diploma or equivalent are also eligible to apply.

Special entry is also available through Recognition of Prior Learning and relevant experience. Entry points will vary according to Swinburne Exemption and RPL policies.

Application procedure

Applications should be made directly to Swinburne Lilydale.

Further information

Contact Swinburne Lilydale on +61 3 9215 7000
Higher Degrees by Research

Doctor of Philosophy (Arts)

The School offers the degree of Doctor of Philosophy on a full-time or part-time basis. A candidate may be required to undertake preliminary coursework as part of the candidature. The Policy for the degree of Doctor of Philosophy sets out the regulations governing this qualification. Prospective candidates should access the website www.swin.edu.au/research/postgrad.htm or contact the Higher Degrees and Scholarship Manager on (03) 9214 5224 for copies of the policy for the degree of Doctor of Philosophy and the degree of Master (by research).

Scholarships

Research Training Scheme
Higher degree students will normally receive a HECS exemption place under the Research Training Scheme.

Australian Postgraduate Award
The Australian Research Council (ARC) offers 900 Australian Postgraduate Awards (APAs) per year to postgraduate researchers of exceptional promise. Equivalent Swinburne funded scholarships are also available: these are known as Swinburne University Postgraduate Research Awards.

For further information, visit the website at: www.swin.edu.au/research/schols.htm

Campus
Hawthorn

Course duration
The expected normal duration of candidature is 3.5 years full-time or 6 years part-time.

Structure
Candidates carry out a program of research, investigation or development involving the submission of a substantial major thesis embodying the results of that program and presented as a coherent whole work. For further information, refer to the Policy for the degree of Doctor of Philosophy at www.swin.edu.au/research/postgrad.htm

Entry requirements
Applicants should have a 1st class or upper 2nd class honours degree or equivalent in a discipline appropriate to the proposed area of study. The level of academic achievement in prior studies must be of a very high standard. Other relevant activities, including work experience, will be taken into account in assessing applications.

Application procedure
Intending applicants should approach the Head of the relevant discipline or the School Research Coordinator to identify staff who may be appropriate and available to supervise the proposed project. Information about staff research expertise is available on the School website www.swin.edu.au/sbs. An application can proceed only if a staff member with suitable expertise is available and willing to supervise the project.

Candidature application forms are available at: www.swin.edu.au/research/postgrad.htm

Further information
Contact the Higher Degrees and Scholarship Manager on +61 3 9214 5224
Website: www.swin.edu.au/research

Master of Arts (by research)

The School of Social and Behavioural Sciences offers the degree of Master of Arts (by research). The Policy for the degree of Master (by research) sets out the regulations governing this qualification. See website: www.swin.edu.au/research/postgrad.htm under Research Policy.
Subject Details

How to find subjects

All subject descriptions are contained in this chapter. All subjects are allocated an alphanumeric code and are listed here in code order.

Textbooks

Textbooks are material essential to the subject.

Due to the frequency with which individual publications become outdated, and are superseded, textbooks and recommended reading are not listed for all subjects. Students are advised not to purchase textbooks or reference books until classes commence unless they have consulted the lecturer in charge of the subject.

In most subjects a detailed reading guide will be issued during the first two weeks of classes. Students wishing to carry out preliminary reading in a subject should consult the lecturer in charge of that subject for guidance.

D0046FS1 Support the Pre and Post Natal Needs of the Newborn and Mother

Nominal Hours: Prahran + Prerequisite: Nil

A subject in the Graduate Certificate of Social Science (Post Natal Family Support).

Content

This module provides participants with the knowledge and theory relating to pre-natal and postnatal care of a mother and baby. It also provides the participants with the knowledge and skills to provide effective support and information to the parents during pregnancy and after the birth of their baby.

D0046FS2 The Diverse Needs and Issues for Families in Their Parenting Role in the Pre and Post Natal Period

Nominal Hours: Prahran + Prerequisite: Nil

A subject in the Graduate Certificate of Social Science (Pre and Post Natal Family Support).

Content

This module will provide participants with the essential knowledge and skills to support parents in their parenting role in the pre and postnatal period. It examines the diverse needs of families and the range of issues that may impact them during this period. It also provides the knowledge and skills to assist parents to use positive guidance strategies to address specific behavioural responses in the family.

D0046FS3 Communication With Parents, Other Extended Family and Other Health Professionals

Nominal Hours: Prahran + Prerequisite: Nil

A subject in the Graduate Certificate of Social Science (Pre and Post Natal Family Support).

Content

This module will provide participants with the essential knowledge and skills to develop and apply appropriate communication skills with parents, other extended family members and other health professionals. It also provides knowledge of the range of resources available to support families in the neonatal and prenatal period and examines the process of referrals to agencies and the establishment and use of networks.

D0046FS4 Short and Long Term Care Planning

Nominal Hours: Prahran + Prerequisite: Nil

A subject in the Graduate Certificate of Social Science (Pre and Post Natal Family Support).

Content

This module provides participants with the knowledge and skills to develop, implement and evaluate a short and long term plan responsive to the needs of families in the pre and postnatal period.

HAGT410 Gestalt Therapy Theory

12.5 Credit Points: 2 Semesters: 3.5 Hours per week: External Venue: Prerequisite: Nil: Teaching methods: Lectures, seminars, directed reading, experiential exercises and student facilitated discussions: Assessment: Assignments, Oral Presentation

A subject in the Graduate Diploma of Social Science (Gestalt Therapy)

Aims & Objectives

This subject aims to develop students' knowledge of the theoretical foundations of Gestalt Therapy, and the implications these concepts have for the practice of Gestalt Therapy. Specifically, students completing this subject will:

- Know the respective core principles of field theory, phenomenology, and dialogic process.
- Know the concept of the contact cycle in Gestalt Therapy, and its stages.
- Know the nature of the contact boundary in Gestalt Therapy.
- Be able to use at least one of the primary models for understanding disturbances to the contact boundary.
- Understand the nature of the five disturbances to the contact cycle.

Content

- Field theory
- Phenomenology
- Dialogic process
- The contact cycle
- Working with self-regulatory mechanisms at the contact boundary

Recommended reading


Students are also provided with a range of articles published in contemporary research and practice literature.

HAGT411 Therapeutic Interventions in Gestalt Therapy - Level 1

12.5 Credit Points: 1 Semester: 3 Hours per Week: External Venue: Prerequisite: Nil: Teaching methods: Lectures, directed reading, live practicum work, seminars, and student facilitated discussions: Assessment: Case Studies, Literature Review, Practicum work

A subject in the Graduate Diploma of Social Science (Gestalt Therapy).

Aims & Objectives

This subject aims to equip students with the basic therapeutic skills essential to the practice of Gestalt Therapy. Upon completion of this subject, students will:

- Have developed the basic skills to assist the client to sharpen his/her figure (in figure/ground formation).
- Know the 5 essential principles of Field Theory and be able to apply them in their practice with clients.
- Know the principles of Phenomenology and be able to apply them in their practice with clients.
- Be able to identify the phases of the Contact Cycle, and interruptions to the Cycle, in the client/therapist processes in the group.

Content

- Field Theory
- Phenomenology
- The Contact Cycle
- Process vs Content Focus in Therapy
- The Therapist's Experience

Recommended reading


Students are also provided with a range of articles published in contemporary research and practice literature.